Océ CS9160

Operation Instructions

Eco Solvent

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1 REGULARISATION AND SAFETY INFORMATION

1.1 COMPLY WITH FOLLOWING REGULATIONS

⚠ Caution ⚠

- **When performing an installation or an operation of the printer, be sure to follow the directions and warnings mentioned in this book.**

The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives.

By affixing the CE marking, the manufacturer, his authorized representative, or the person placing the product on the market or putting it into service ensures that the item meets all the essential requirements of all applicable EU directives and that the applicable conformity assessment procedures have been applied.

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC – WEEE regulation.

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

1.2 WARNINGS, CAUTIONS AND NOTES

The contents of alarm displays included in this User's Guide and warning label stuck on the main body of the printer are classified into three categories according to the degree of danger.
Understand the meaning of the following warning terms and follow the contents (instructions) in this guide.

Warnings	Meaning
⚠ **Important** ⚠	If ignored, it would lead to dangerous situations where death or serious injury may be caused.
⚠ **Caution** ⚠	If ignored, it would lead to a dangerous situation, causing slight or middle class illness, or damage to the product or parts of the product.
⚠ **Notes** ⚠	Used for a special caution and for information that needs to be emphasized.

1.3 IMPORTANT SAFETY INSTRUCTIONS

In order to use the printer safely, the general notes which must be followed are explained.

Symbol	Meaning
	Indicates 'prohibited' operations.
	Indicates required operations.

⚠ Caution ⚠

- **When performing an installation or an operation of the printer, be sure to follow the directions and warnings mentioned in this book.**

Managing VOCs

Recommendation for ventilation in user manual of Océ CS9160:

During the operation of the Océ CS9160 volatile organic compounds (VOCs) will release originating from the Eco-solvent ink.
In order to avoid any health risk the user needs to take all necessary precautions in accordance with all applicable local, state and federal regulations.

Océ recommends a ventilation of 300 m^3/hr. This means that for an Océ CS9160 installed in a room with a volume of 100 m^3, a ventilation rate of at least 3 times per hour is necessary i.e. the room volume of 100 m^3 has to be refreshed three times per hour. The recommended ventilation should be applied in case the printer is used at nominal printing speed (15m^2/h) at daily print volumes of 45 m^2/day (3 times the average intended use).
In case of more intensive use of the printer, the ventilation frequency should be increased accordingly.

Handling inks / cleaning + waste of inks / cleaning

⚠ Caution ⚠

- **Before handling inks/ cleaning and their waste, do carefully read the MSDS-sheet and the container labels for important health, safety and environmental information.**

- Only use original manufacturer's ink and appropriate cleaning liquid. Before installing the ink cassette, shake it gently. Doing so will preserve print quality.

- When an ink cassette is moved from a cold place to warm place, keep the ink cassette for three hours or more in the new printing environment before printing.

- Inks
  - General advice: wear safety glasses and gloves especially when handling the waste ink.
  - After spill: remove contaminated clothing.
  - After inhalation: if difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
  - After skin contact: wash thoroughly with soap and water.
  - After eye contact: wash affected eyes for at least 15 minutes under running water while eyelids held open.
  - After swallowing: rinse mouth and drink plenty of water. Never induce vomiting.

- Do not disassemble ink cassettes. Otherwise, ink may get in your eyes or on your skin. Also a disassembled ink cassette can not be used.
- When refilling ink, use original manufacturer's ink cassettes. This printer is designed to use genuine ink cassettes. If you use ink cassettes which are not produced by the original manufacturer,

- printing might become blurred and the end of the ink in the cassette might not be detected correctly
- Any problems caused by using an ink cassette other than those recommended above will not be covered by the warranty, and repair expenses will be paid by the customer.

- For handling waste : see section 13 on the MSDS-sheet

General safety instructions that must be observed to use the equipment safely are explained below.

- Do not install the printer in places where there is a possibility that the printer may be damaged or might fall by chance. For example:
  - On a shaky stand
  - Slanting location
  - Places where vibration of other machines etc. is transmitted
- Do not stand on the printer or do not place heavy things on top of it. The printer may be damaged or might fall.
- Cover the printer with a blanket or cloth like table cloth and do not close the vent. If the vent is closed, the printer could accumulate heat inside and may cause fire.
- Do not install the printer in places where the humidity is high or in a dusty environment. It could lead to an electric shock and/or fire.
- Do not use damaged power cables. It could lead to an electric shock and / or fire.
- Do not take out or insert the power plugs with wet hands. This could lead to an electric shock.
- Do not connect earth cables in the following areas :
  - Gas pipes. Doing so may cause fire or an explosion.
  - Earth terminals for telephone lines or lightning rods. Doing so may cause a large flow of voltage if lightning occurs.
  - Water pipes or faucets. If there is a plastic part in the pipe, the grounding will not work correctly.
- Do not store combustible materials on the print platform. It could lead to fire when raising the temperature.
- Do not insert or drop metal or objects which are easily combustible through the openings such as fresh air inlet into the printer. It could lead to an electric shock and fire.
- When foreign substances or liquids such as water enter the printer, do not use the printer. It could lead to an electric shock and / or fire. Immediately switch OFF the power, disconnect the power plugs from the electric socket, and contact your local Océ representative.
- While installing optional items, be sure to Switch OFF the printer and pull out the power plugs. It could lead to an electric shock.
- Wire the various cables as explained in the User's Guide. Wrong wiring could cause fire.
- Be sure to use the power cables supplied with the printer. If other power cables are used, it could cause an electric shock or fire.
- Make sure to use only the specified power supply (AC 100 V - 120 V or AC 220 V - 240 V). If a power supply other than the specified voltage is used, it could cause an electric shock and fire.
- Take power for the printer directly from the power socket (AC 100 V - 120 V or AC 220 V - 240 V). Do not use complex multiple plugs on the same socket. This could generate heat and might cause fire.
- Be sure to use a dedicated power socket with earth wire for the power supply, and connect it to the earth wire. If the earth wire is not connected, an electric shock or fire may occur.

- The waste fluid from the printer is a waste oil (waste ink) of industrial waste. Proper waste fluid disposal according to industrial waste disposal laws and ordinances of your local governments are required. Consign disposal of waste fluids to specialized processor.

- Do not insert or drop metal or flammable objects into the printer through openings such as a fresh air inlet. It could lead to an electric shock or fire.
  If foreign substances or liquids such as water entered the printer, do not use the printer. It could lead to an electric shock or fire. Immediately switch OFF the printer, disconnect the power plugs from the electric socket, and contact your local Océ representative.

- Pay attention to the following points, while handling the power cables.
  - Do not do anything forcefully on the power cables.
  - Do not keep heavy objects on the power cables.
  - Do not bend, twist or pull the power cables by force.
  - Do not route the power cables near heating appliances.

- Verify that no foreign substances such as dust are stuck on the power plugs. If you have controlled this, make sure that the power plugs are firmly inserted to the edge of the power socket.
- Mishandling of the power cables could lead to a fire.

- Be careful that your fingers are not caught when opening or closing the media cover or front cover.

- Do not operate the media set lever during printer initialization. If the carriage portion and the pressure roller portion touch each other, there is a possibility that the printer may break down.

- Do not touch the media guide during printing. It is hot and may cause burns.

- Do not touch the media feed slot, platen or media guide while heaters are operating. They are hot and may cause burns.

- Do not use volatile solvents such as thinner, benzene, or alcohol. These could damage the paint.

- Be careful that moisture does not enter the printer. There is a possibility that the electric circuits inside the printer might get short circuited.

- Do not open covers attached with screws under any circumstance. This could cause an electric shock or printer breakdown.

- While cleaning with the wiper
  - Do not touch the cleaning wiper and head cap unit.
    Head cleaning may not be operated correctly because of the grease attached.
  - Make sure to wipe the print head with a dry poly-knit wiper.

- Do not make the main body of the printer slanting or place it in a vertical position or do not keep the printer upside down. There is a possibility that ink inside the printer may leak. Moreover, normal operation after shifting (to these positions) cannot be guaranteed.

- Unpacking, transporting and installing the printer to the installation place should be done by 4 or more persons

- Move the printer maintaining it in a horizontal position.
  Do not make the main body of the printer slanting or place it in a vertical position, nor keep the printer upside down. There is a possibility that the ink inside the printer may leak. Moreover, normal operation after shifting to these positions cannot be guaranteed.

- While taking out the printer from the container box, make sure to remove the vinyl sheet and hold the handles on the printer side. If the printer is lifted with the vinyl sheet attached, there is a possibility that the printer might fall and might be damaged.

- While installing the stand, be sure to switch OFF the printer power and to pull out the power plugs. It could lead to an electric shock.

- If the printer is not used for a longer period, make sure to pull out the power plugs from the power sockets for safety reasons.

- Make sure to connect an earth wire to the earth connection which meets the following standards:
  - Earth terminal of power socket
  - Earth wire with copper plate which is buried at 650 mm or more, deep in the ground.

- Set the roll media on an even surface such as a desk etc. If the roll media is set in such a way that the scroller is standing vertical, there is a possibility that the scroller might get damaged.

- When printing is finished, the media guide is at high temperature. Wait until the media guide cools off.

- Pay attention when you cut roll media. Mishandling the razor blade may cause a cut in your finger or hand.
  - When you hold media, do not place your finger on the media cut groove.
  - Move the razor blade along the media cut groove.

- Be sure to switch OFF the power, and disconnect the power plugs when cleaning the printer.

- Follow the instructions below when handling the power plugs. Otherwise, fire may occur.
  - Wipe away dust and any other residue before inserting the plugs.
  - Ensure that the plugs are firmly inserted as far as it will go.

- Ensure that the plugs have been disconnected from the power sockets when they are not used for a long time.

- Do not drop waste fluid when replacing the spitting-box sponges. If waste fluid comes into contact with the grid roller, the surface of the grid roller will be damaged, and the media feed function may be affected.

- When cleaning around the print head
  - Do not touch the nozzle of the print head; doing so may damage the print head.
  - Do not touch the head of the cleaning stick, oil on your hands may attach to the cleaning stick, causing damage to the print head.
  - Do not immerse the head of the cleaning stick in water; doing so may damage the print head.
  - Do not reuse the cleaning stick; dust attached to the stick may damage the print head.

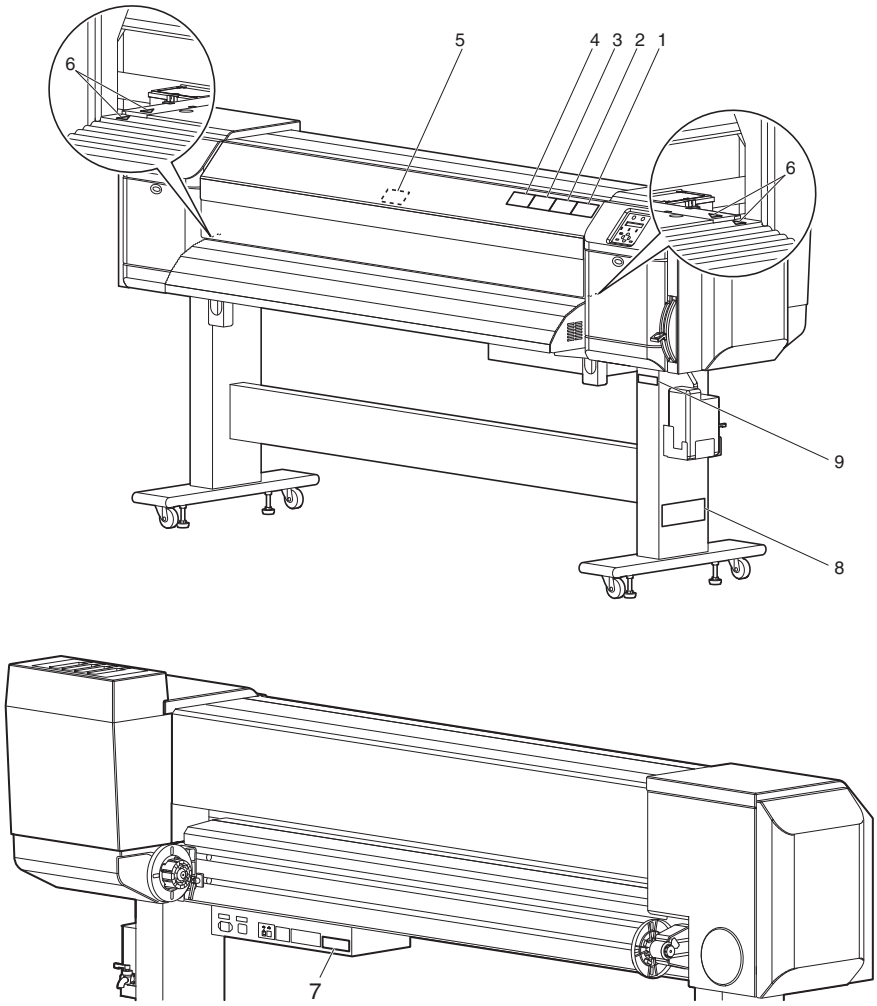
1.4 WARNING LABELS

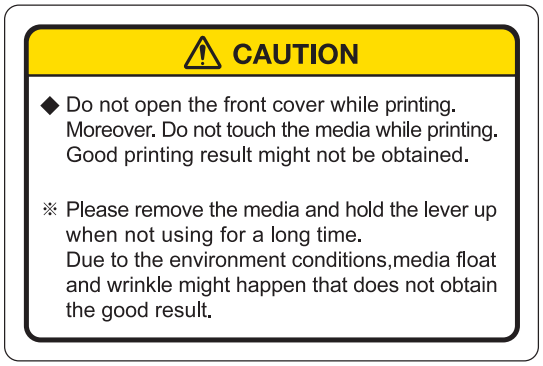
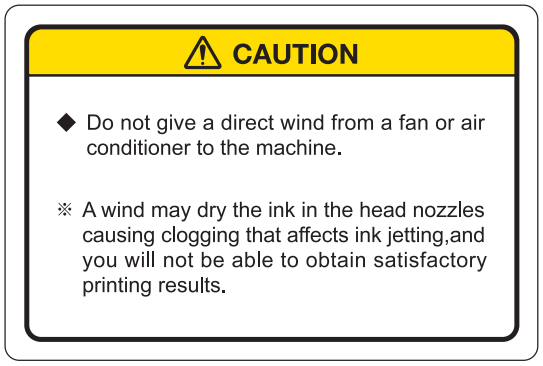
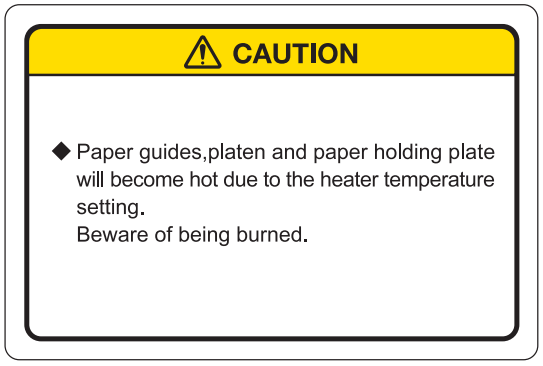
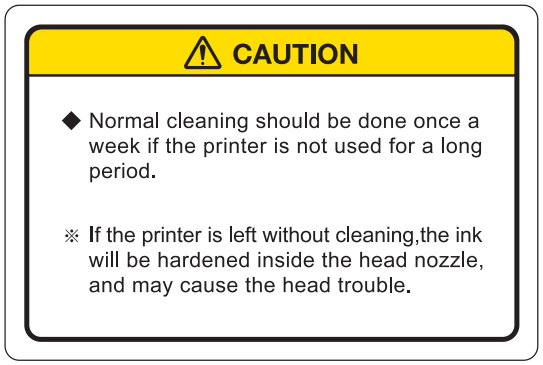
A warning label is used on parts of the printer which especially needs your attention. Understand the locations and the descriptions of the danger associated with each label before operating the printer.

1.4.1 Handling the operation procedure labels

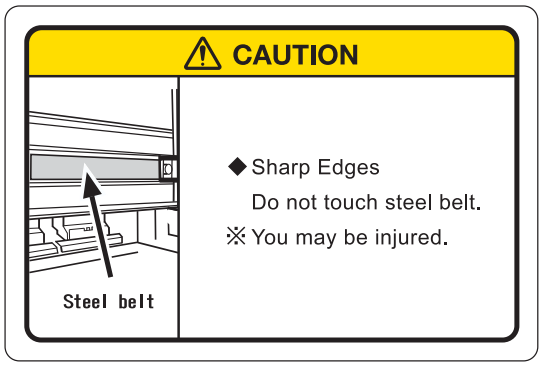
- Check whether all the warning labels can be read. If the letters or illustrations on the label are not clear, remove the dirt from the label.
- Use cloth, water and neutral detergent to remove dirt from the warning label. Avoid either organic solvents or gasoline.
- It is necessary to replace the labels if they are damaged, lost or illegible.
- If the warning labels have to be replaced, contact your local OCÉ representative.

1.4.2 Locations and types of warning labels



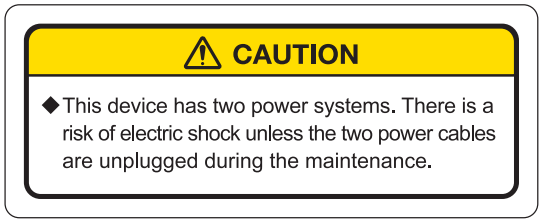
N°	Type of warning labels
1	
2	
3	
4	

5

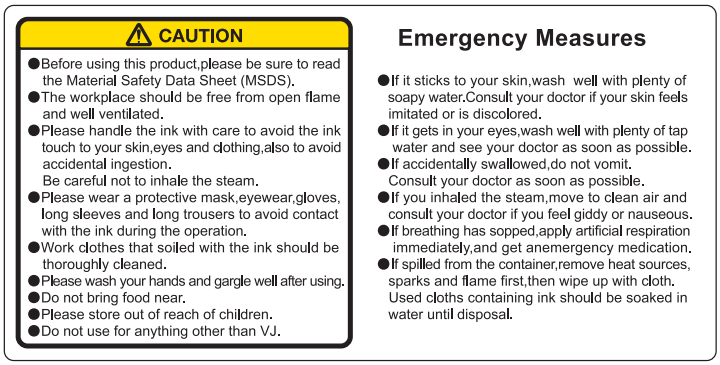

CAUTION
Steel belt
◆Sharp Edges
Do not touch steel belt.
※You may be injured.

6

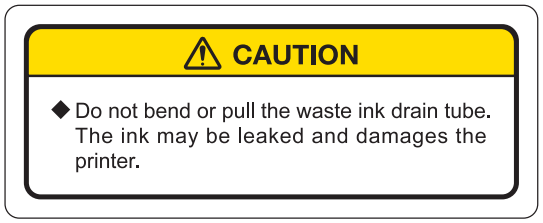
7


CAUTION
◆This device has two power systems. There is a risk of electric shock unless the two power cables are unplugged during the maintenance.

8


CAUTION
●Before using this product,please be sure to read the Material Safety Data Sheet (MSDS).
●The workplace should be free from open flame and well ventilated.
●Please handle the ink with care to avoid the ink touch to your skin,eyes and clothing,also to avoid accidental ingestion.
Be careful not to inhale the steam.
●Please wear a protective mask,eyewear,gloves, long sleeves and long trousers to avoid contact with the ink during the operation.
●Work clothes that soiled with the ink should be thoroughly cleaned.
●Please wash your hands and gargle well after using.
●Do not bring food near.
●Please store out of reach of children.
●Do not use for anything other than VJ.
Emergency Measures
●If it sticks to your skin,wash well with plenty of soapy water.Consult your doctor if your skin feels imitated or is discolored.
●If it gets in your eyes,wash well with plenty of tap water and see your doctor as soon as possible.
●If accidentally swallowed,do not vomit.
Consult your doctor as soon as possible.
●If you inhaled the steam,move to clean air and consult your doctor if you feel giddy or nauseous.
●If breathing has sopped,apply artificial respiration immediately,and get anemergency medication.
●If spilled from the container,remove heat sources, sparks and flame first,then wipe up with cloth.
Used cloths containing ink should be soaked in water until disposal.

9


CAUTION
◆Do not bend or pull the waste ink drain tube. The ink may be leaked and damages the printer.

2 INSTALLATION PROCEDURE

2.1 INSTALLATION ENVIRONMENT

Be sure to read and understand the safety warnings before handling the printer.

2.1.1 Environmental conditions for installation

Floor strength of the installation place		More than 2940 Pa (300 kg/m²)
Power Specifications	Power Supply	AC90V – 132V/198V – 264V
	Frequency Range	50/60Hz ± 1Hz
	Power Capacity	Main: 8.5 A / 4.5A Heater: 8.5 A / 4.5A
Environmental conditions	Operative Condition	Temperature: 20°C to 32°C Humidity: 40% to 60%, No condensation
	Guaranteed range of printing accuracy	Temperature: 22°C to 30°C Humidity: 40% to 60%,
	Change rate	Temperature: within 2°C per hour Humidity: within 5% per hour
	Archiving environment	Temperature: - 20°C to 60°C Humidity: 20% to 80%, No condensation (Ink unfilled)

⚠ Notes ⚠

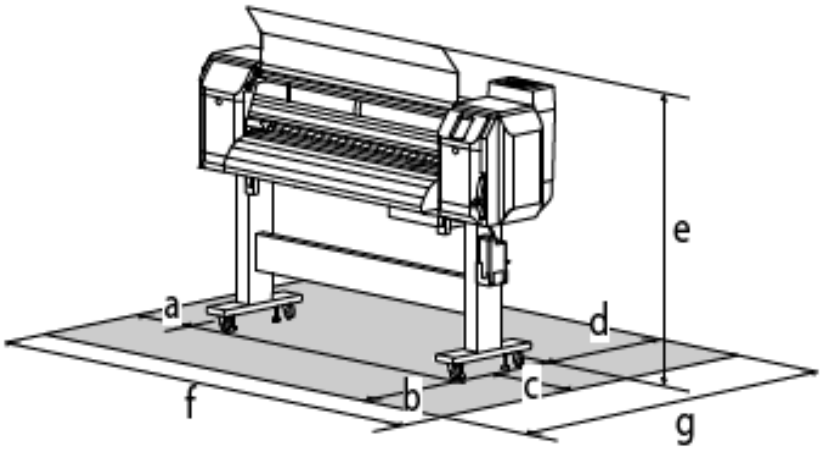
- Concerning temperature and humidity, avoid:
  - Places where temperature or humidity may rapidly change, even though within the required conditions.
  - Places that receive direct sunlight, increased illumination or direct air, for example from an air conditioner.
- To keep the temperature and humidity constant, install this product in a location where the air condition is adjustable.

2.1.2 Installation space

Install the printer on a levelled floor which has enough strength to support the weight of the entire machine.

⚠ Notes ⚠

- For the weight of the printer and the stand, please refer to the Operation Manual.



A	650 mm	E	1550 mm
B	1000 mm	F	3800 mm
C	1000 mm	G	2700 mm
D	1000 mm		

Total height with cassettes mounted = 1600 mm

2.2 UNPACKING THE BOXES

This product is shipped in 3 different boxes, one box with the printer body, one box for the printer stand and one with the ink and documentation.

⚠ Notes ⚠

- Unpacking this product requires 4 or more people.
- Before taking out the printer from the box, make sure to remove the bag first. If the printer is lifted out with the bag still around it, there is a possibility that the printer might slip from your hands and be damaged.

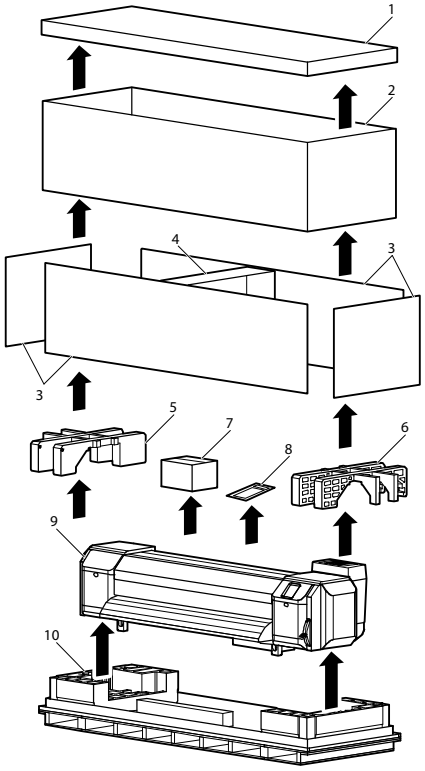
2.2.1 Unpacking the printer box

Step 1 : Carry the box to where you will unpack it.

Step 2 : Remove the bands.

Step 3 : Open the box and take out the following components:

- Installation Manual
- Good Shape Kit



N°	Name
1	Top board
2	Outer board
3	Side board
4	Centre board
5	Cushion (left)
6	Cushion (right)
7	Good Shape Kit
8	Installation Manual
9	Printer body
10	Base

2.2.2 Unpacking the stand box

Step 1 : Carry the box to where you will unpack it.

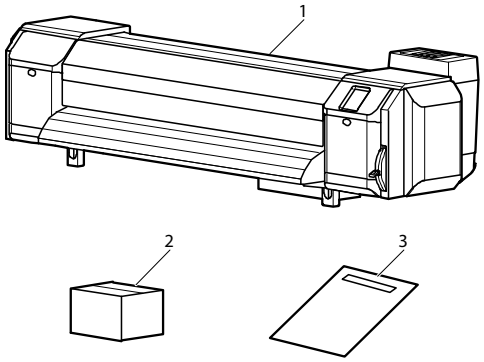
Step 2 : Open the box and take out the components.

2.3 VERIFYING THE BUNDLED ITEMS

⚠ Notes ⚠

- After unpacking, please verify that the product is not damaged and that no components are missing. If so, contact your local OCÉ representative.

2.3.1 Items in the printer box

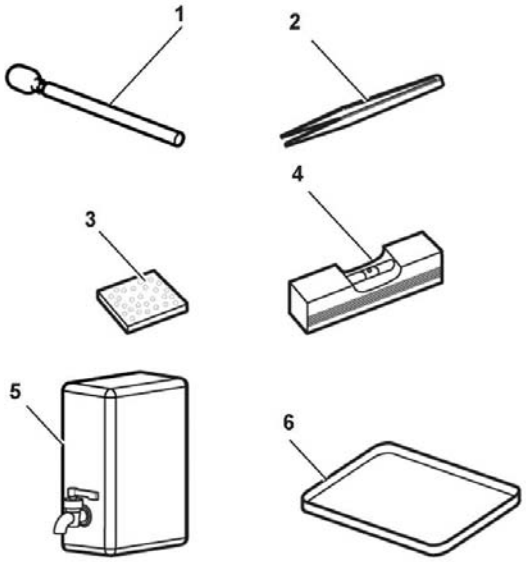


N°	Name	Quantity
1	Printer main body	1
2	Good Shape Kit	1
3	Installation Manual	1

2.3.2 Starterskit

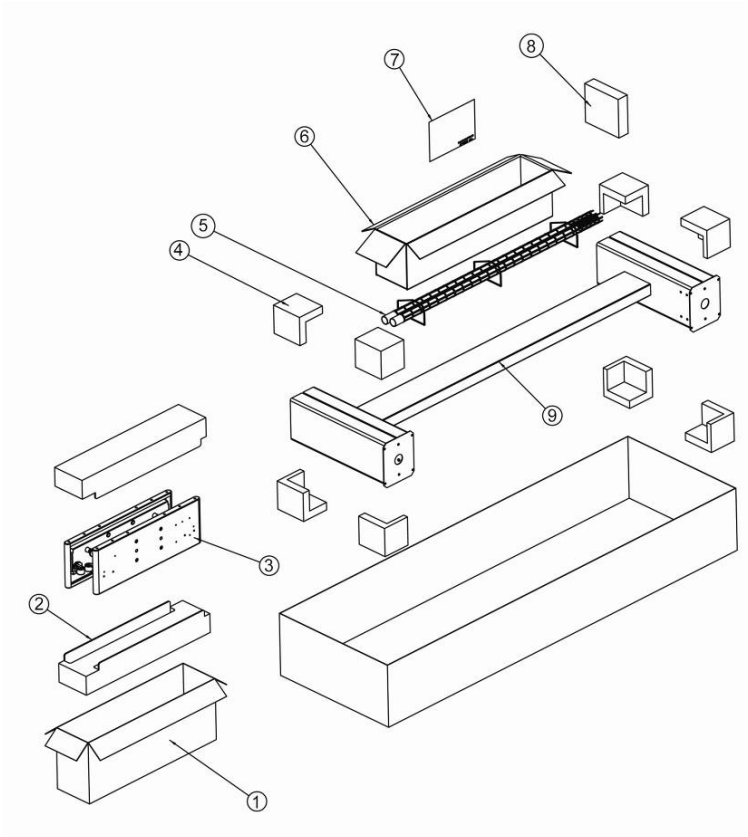
N°	Name	Quantity
1	Power Cables Europe	2
2	Power Cables UK	2
3	User's Guide	1
4	Waste tank bracket	1
5	CD with Océ manuals	1
6	Ink Starter Set Cleaning cassettes Ink cassettes	1 4 4
7	250 ml Eco-Solvent cleaning	1
8	PE gloves	
9	Polyknit wipers	30
10	Océ CS9160 name plate	1
10	"Powered by ONYX" – Decall	1
12	Océ Imaging Suplies sample booklet	1

2.3.3 Items in the Good Shape Kit



N°	Name	Quantity
1	Clean stick	10
2	Tweezers	1
3	Spitting box sponge	10
4	Spirit level	1
5	Waste fluid tank	1
6	Tray	1

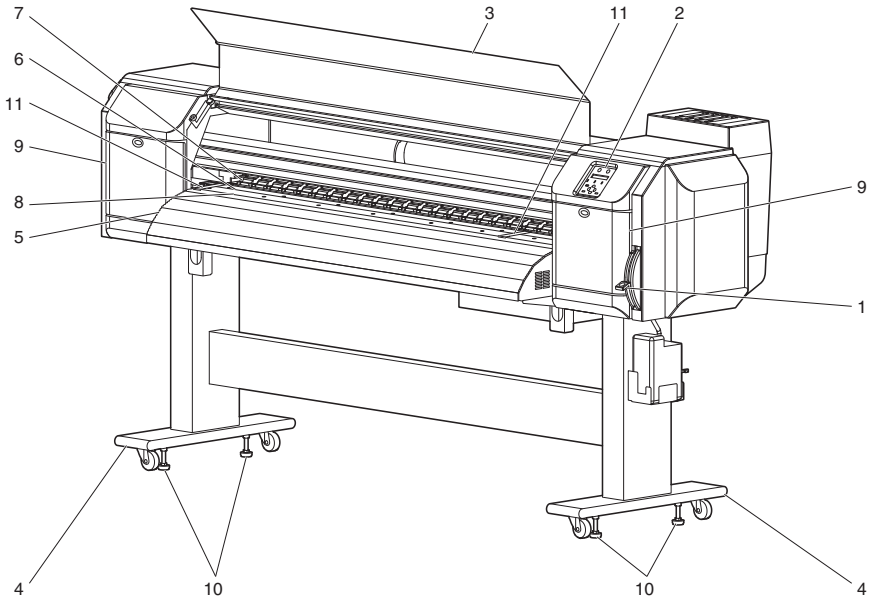
2.3.4 Items in the stand box



N°	Name
1	Wheel box
2	buffer
3	foot
4	Corner buffer
5	Lifting tubes
6	Buffer box
7	Instruction sheet stand
8	Small buffer box
9	Stay
10	Screw set
	Hexagon bolt M5x10 (8Pcs)
	Spring washer M5 (8Pcs)
	Plain washer (8Pcs)
	Pan head spring M4x10 (4Pcs)
	Hexagon ball wrench (1Pcs)
	Screwdriver (1Pcs)
	Hexagon bolt M6x30 (8Pcs)
	Plain washer M6 (8Pcs)
	Sprint washer M6 (8Pcs)
	Hexagon wrench 5mm (1Pcs)

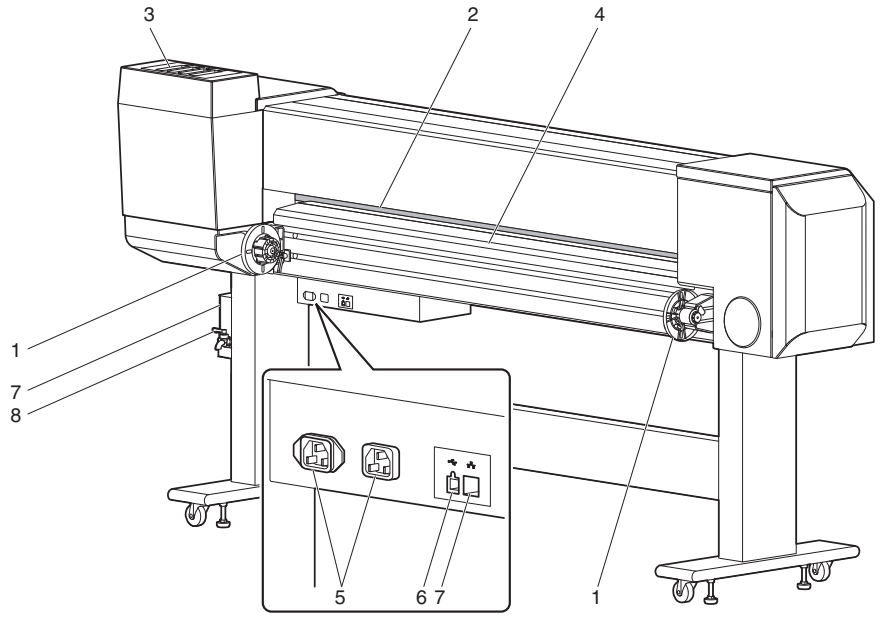
2.4 NAME OF THE PARTS AND FUNCTIONS

2.4.1 Front section



N°	Name	Function
1	Media loading lever	Used to fix or release the media. Lower the lever to fix the media. Lower the lever further to fix the media more firmly. Used to improve the accuracy of media feeding. Raise the lever to release the media.
2	Operation panel	Operation condition setting, printer display and various function settings are performed.
3	Front cover	Used to prevent that a user comes in contact with the driving mechanism during the printer operation. Opened and closed when media is set or jammed. It is normally closed.
4	Stand	To install the printer on a levelled floor.
5	Media guide	Used to feed the media smoothly when the media is set or printed. The printer has also an incorporated heater (after heater) to dry the ink.
6	platen	Installed inside of the front cover. The heater (platen heater) to dry ink is installed.
7	pressure rollers	Installed inside of the front cover. Press and hold the media when printing.
8	Media cut groove	Installed inside of the front cover. Used to cut media straight.
9	Maintenance cover	Used to prevent the user from touching the inner mechanical section. Open and close in the following cases. When cleaning the wiper. When cleaning around the printer. It is normally closed.
10	adjuster	Used to install the printer horizontally
11	Media retainers	These media retainers will keep the media edges flat onto the printer. This to prevent a crash of the moving print head with the media.

2.4.2 Rear section



N°	Name	Function
1	Roll media holders	Used to load the roll media. Include flanges where roll media is attached, and the levers that fix the roll media holders.
2	Media feed slot	Used for feeding media
3	Ink cassette slot	Insert the ink cassette
4	Media guide	Used for smoothly feeding through media when the media is set or printed. The CS9160 printer also incorporates a pre-heater element to warm up the installed media before printing.
5	AC inlet	Used to connect the power cables.
6	USB connector	Not used for this printer
7	Network interface connector	Connects a network interface cable.
8	Waste fluid tank	Used to collect waste ink discharged from the printer.
9	Waste fluid valve	Open and close when discharging the waste fluid from the waste fluid tank. The default position is closed.

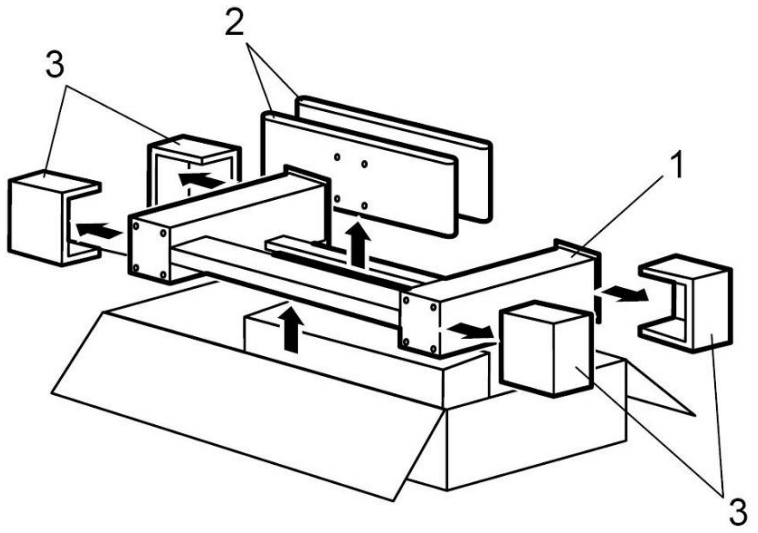
2.5 ASSEMBLING

2.5.1 *Assembling the stand*

Be sure to read and understand the safety warnings before handling the printer.

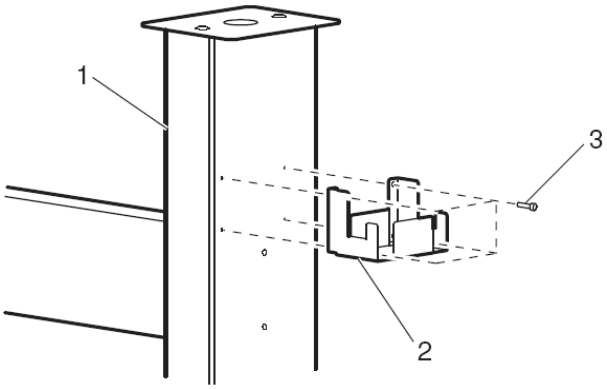
Step 1 : Move the packaging of the stand to the location to unpack.

Step 2 : Open the package and take out the foot, stay, lifting tubes and the packaging materials.



N°	Name
1	Stay
2	Foot
3	Packaging material

Step 3 : Attach the waste fluid tank holder to the stand by using four screws.

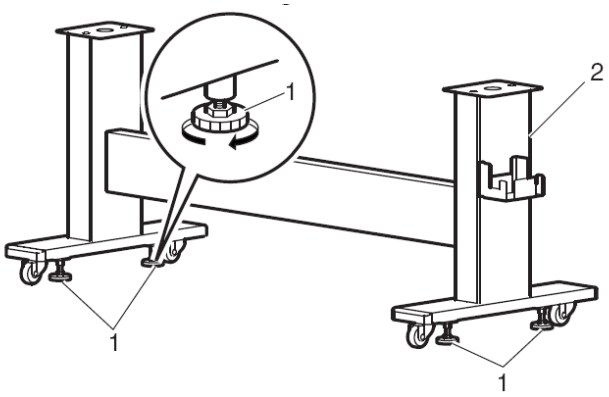


N°	Name
1	Leg
2	Waste fluid tank holder
3	pan head spring + washer M4*10

Step 4 : Verify that each component is fastened firmly by gently shaking the stand.

2.5.2 Mounting the printer to the stand

Step 1 : Turn the four adjusters as shown below to prevent the stand from moving.

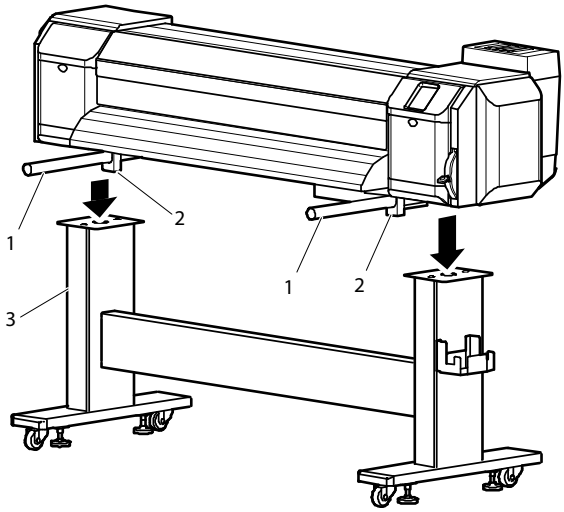


N°	Name
1	Adjusters
2	Stand

Step 2 : Insert the two lifting tubes into the right and left transfer brackets, lift the printer with four or more people and place it on the stand.

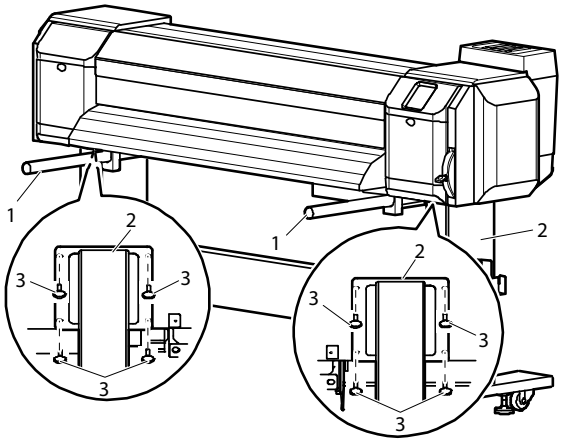
⚠ Notes ⚠

- On top of each leg as well as on the underside of the printer body there are arrows pictured. To correctly install, make sure that the arrows of the legs point in the same direction as the arrow on the body.



N°	Name
1	Lifting tubes
2	Transfer brackets
3	Stand

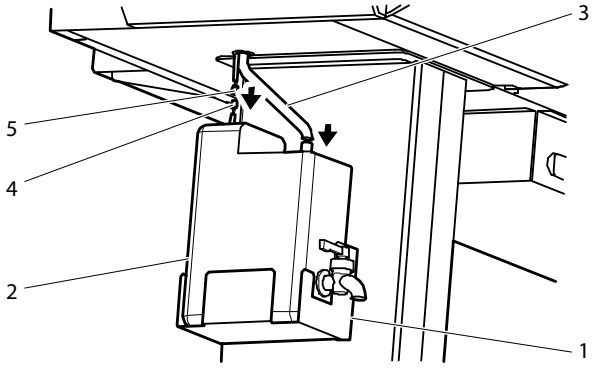
Step 3 : Remove the two lifting tubes and fasten the printer to the stand using eight hexagon bolts.



N°	Name
1	Lifting tubes
2	Stand
3	Hexagon bolt + washer

Step 4 : Follow the procedure below to attach the waste fluid tank.

- Place the waste fluid tank in the waste fluid holder
- Attach the waste fluid tube to the tank
- Attach the waste fluid sensor cable to the connector on the bottom of the printer



N°	Name
1	Waste fluid tank holder
2	Waste fluid tank
3	Waste fluid tube
4	Waste fluid sensor cable
5	Waste fluid sensor connector

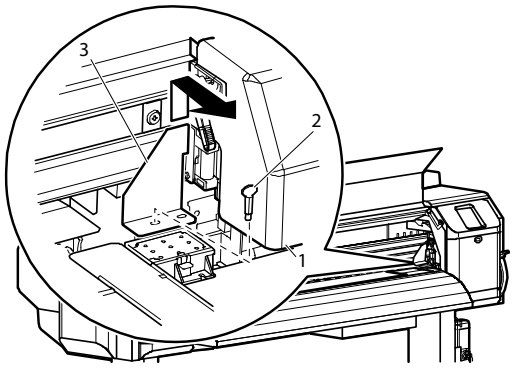
2.5.3 Removing protective materials

Step 1 : Remove the tape from each cover.

Step 2 : Open the front cover, loosen the butterfly screw and remove the metal plate which is fixing the head unit.

⚠ Notes ⚠

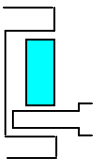
- Do not throw away this metal plate, you will need it again if you ever want to transfer or transport your printer.



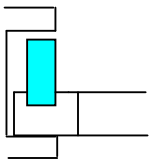
N°	Name
1	Head unit
2	Butterfly screw
3	Head unit fastening material (metal plate)

Step 3 : Open the right maintenance cover

Step 4 : Turn of and pull out the plastic bar while lifting the carriage.



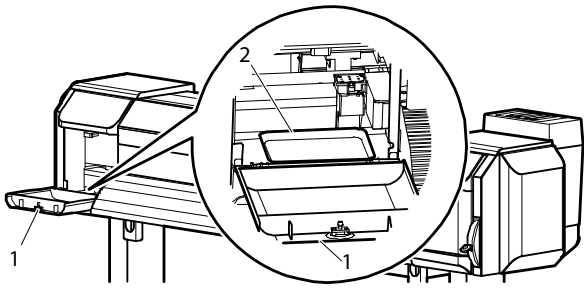
The plastic bar is loose



The plastic bar is fixed

Step 5 : Repeat the procedure to remove the opposite plastic bar.

Step 6 : Open the left maintenance cover and place the tray.



N°	Name
1	Maintenance cover left
2	Tray

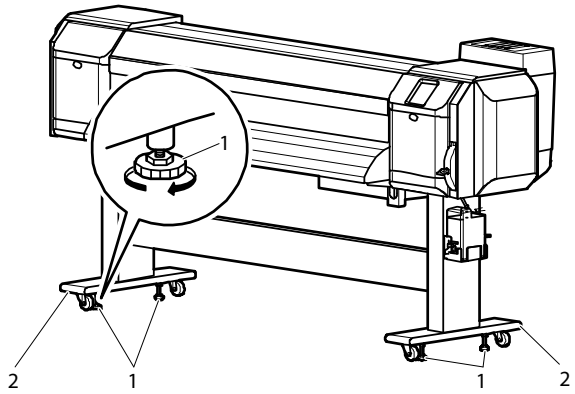
2.6 LEVELLING THE PRINTER

⚠ Notes ⚠

- Please verify before and after carrying this product that the screws are well fixed.
- When transferring or carrying outside, separate the printer from its stand.

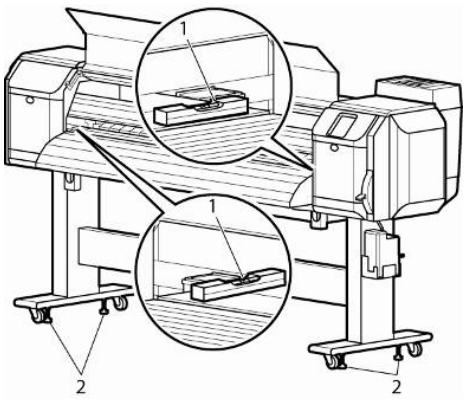
Step 1 : Carry the printer to the installation place.

Step 2 : Turn the adjusters in the direction as shown below to prevent the printer from moving.



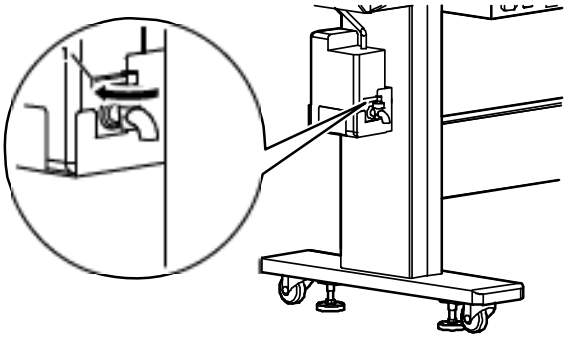
N°	Name
1	Adjusters
2	Stand

Step 3 : Level out the printer by placing the spirit level on the left and right plates.



N°	Name
1	Spirit level
2	Adjusters

Step 4 : Confirm that the waste fluid valve is closed.



N°	Name
1	Waste fluid valve

2.7 TRANSFER AND TRANSPORTATION

2.7.1 *Transferring the printer*

Be sure to read and understand the safety warnings before handling the printer.

When using the dedicated stand, transfer the printer according to the procedure below.

(1) Pre-transfer steps

Step 1 : Verify that the printer has been switched OFF.

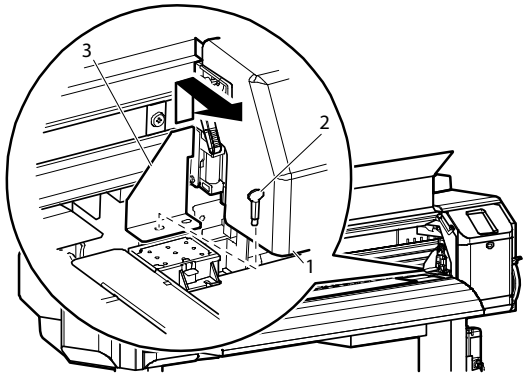
Step 2 : Dispose the waste fluid

Step 3 : Remove all the cables, such as the power cable

Step 4 : Verify that the butterfly bolts attaching the stand with the printer, are well fixed.

Step 5 : Verify that the printer head is in the rightmost position.

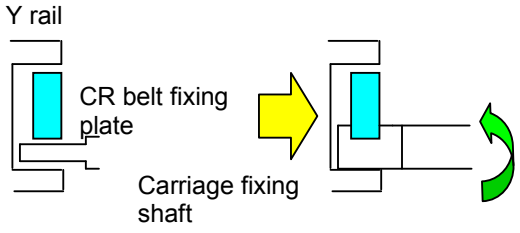
Step 6 : Attach the protective material (metal plate) for attaching the head unit, and fix it with thumbscrews.



N°	Name
1	Head unit
2	Butterfly screw
3	Head unit fastening material (metal plate)

Step 7 : Open the right maintenance cover and the front cover

Step 8 : Install the plastic bar while lifting the carriage.



Step 9 : The plastic bars are installed to both right and left side of the carriage.

Step 10 : Remove the scroller.

Step 11 : Unplug and remove all cables.

Step 12 : Release the lock of the caster wheels and transfer the printer.

⚠ Notes ⚠

- The casters supplied with the dedicated stand are manufactured for a small transfer on a plain surface. When moving the printer outdoors, and in places with big step differences, then move the stand and printer separately. For further details please refer to the Installation guide.

(2) Steps after transfer

Step 1 : Choose a suitable place to install the printer.
Refer to "**Installation guide"**

Step 2 : Verify that the butterfly bolts fixing the stand with the printer are well fixed.

Step 3 : Connect all cables.

Step 4 : Perform a nozzle check, and verify that there is no clogging in the printer head.
Refer to **"Nozzle check"**

Step 5 : Perform a head alignment.
Refer to "**Adjust print"**

2.7.2 Transporting the printer

When transporting the printer, it is necessary to pack the printer as it was shipped, using the protective materials and packing materials to protect the printer from vibration and shocks.

⚠ Notes ⚠

- When transporting the printer, consult your OCÉ product representative.

(1) Pre- transport procedure

Step 1 : Switch ON the printer.

Step 2 : Verify that the printer is in Normal mode.

Step 3 : Remove all ink cassettes.

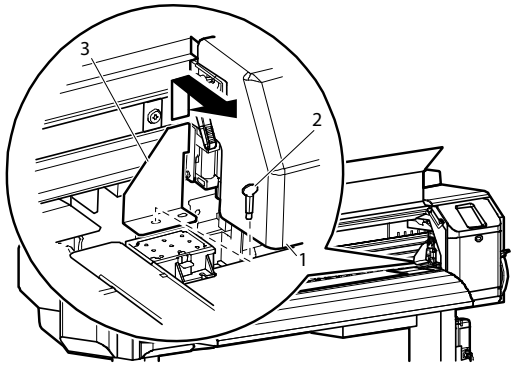
Step 4 : Switch OFF the printer.
- Result: The operation panel displays "Transport Mode", and the printer starts the ink rejecting operation.
- The ink rejecting operation takes about 2 minutes.

Step 5 : Verify that the power light faints when the ink rejection operations has been finished.

Step 6 : Remove the scroller or the optional winding system.

Step 7 : Remove all cables.

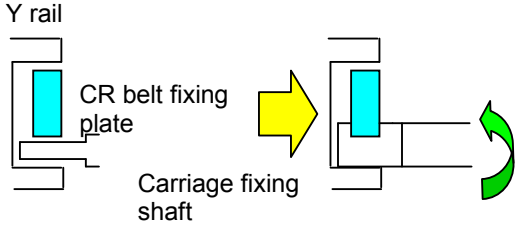
Step 8 : Attach the protective material (metal plate) to the head unit, and fix it with thumbscrews.



No.	Name
1	Head unit
2	Butterfly screw
3	Head unit fastening material (metal plate)

Step 9 : Open the right maintenance cover and the front cover

Step 10 : Install the plastic bar while lifting the carriage.



Step 11 : The plastic bars are installed to both right and left side of the carriage.

Step 12 : Remove the printer from the stand. Refer to: "**Installation guide"**

Step 13 : Repack the printer.

(2) Post-transport procedure

Step 1 : To perform unpacking, assembling, and placing the printer. Please refer to: "**Installation guide"**

Set the printer in an available condition. Please refer to "**Transferring the printer" and "Steps after transfer"**

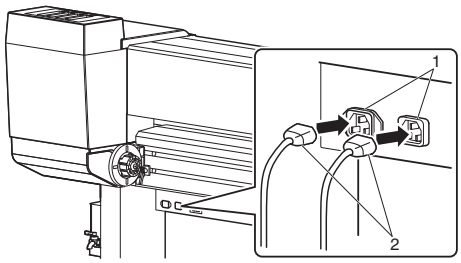
3 PREPARING FOR A JOB

3.1 CONNECTING THE POWER CABLES

Be sure to read and understand the safety warnings before handling the printer.

Step 1 : Make sure that the power key is switched OFF.

Step 2 : Plug the power cables to the AC inlets on the right of the printer.



N°	Name
1	AC inlet
2	Power cables

Step 3 : Correctly insert the power cable plugs into the power sockets.

⚠ Notes ⚠

- To use the two power cables plugged in the inlets, a total capacity of 17A or more is required. If the power source cannot supply the required capacity, plug the two power cables in a different power sources respectively.

3.2 SWITCHING THE POWER ON/OFF

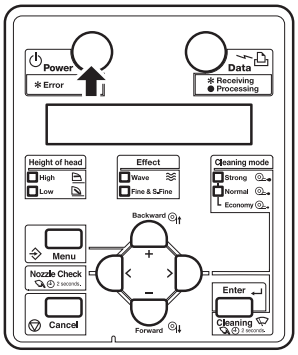
3.2.1 Switching the power ON

Step 1 : Press the [Power] key on the operation panel to switch ON the printer.

Step 2 : The Power lamp on the operation panel lights up in green.

Step 3 : The printer starts initial operation.

Step 4 : When the initial operation is complete, the printer enters the normal status.



3.2.2 Switching the power OFF

Be sure to read and understand the safety warnings before handling the printer.

Step 1 : Before powering OFF, be sure that:

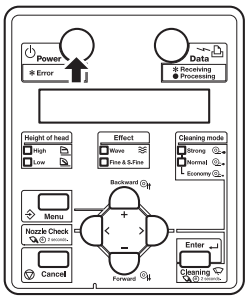
- Printing or other operations are stopped or finished.
- The printer (and operation panel) is in normal mode.
- The head height adjustment lever is lowered

Step 2 : Press the [Power] key on the operation panel to switch OFF the printer.

- The Power indicating light on the operation panel switches OFF.

⚠ Notes ⚠

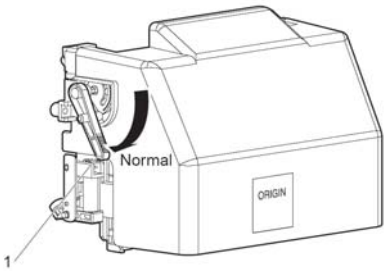
- If the [POWER] key is pressed or the power indication light lights up green, the power is ON.
- Press the key once again and switch OFF the power.



- "Power OFF" is displayed on the operation panel.

⚠ Notes ⚠

- If the head height adjustment lever is raised, "Change Head Gap Low" is displayed. Lower the lever.



N°	Name
1	Head height adjustment lever

- All the indication lights on the operation panel and the LCD monitor are switched OFF.
- The printer automatically switches the power OFF.

⚠ Notes ⚠

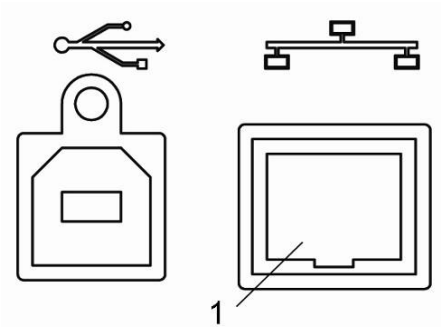
- If there is a problem during the Power OFF sequence, the printer displays a message on the operation panel and may stop operating.
  In the case operation stops, refer to **"Troubleshooting"**.
- After switching OFF the printer, wait for 10 seconds or longer to switch it ON again.

Step 2 : Raise the media hold lever after the powering OFF cycle, so you will not damage the media by the pressure of the grid rollers.

3.3 CONNECTING THE PRINTER TO THE WORKSTATION

Step 1 : Switch OFF both the printer and the workstation.

Step 2 : Plug the network interface cable into the network interface connector located at the back of the printer.



N°	Name
1	Network interface connector

Step 3 : Plug the other end of the network interface cable into your workstation.

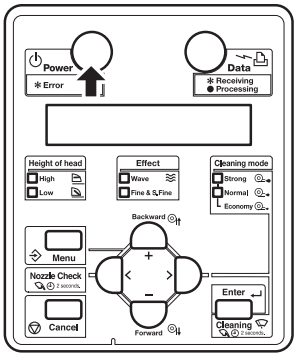
⚠ Notes ⚠

- For more information on how to connect to your workstation, please refer to the operation manual of your workstation.
- For network settings on the side of the printer, refer to the **Océ CS9160 Printer User's Guide.**

3.4 INSTALLING THE INK CASSETTES

Be sure to read and understand the safety warnings before handling the printer.

Step 1 : Switch ON the printer.

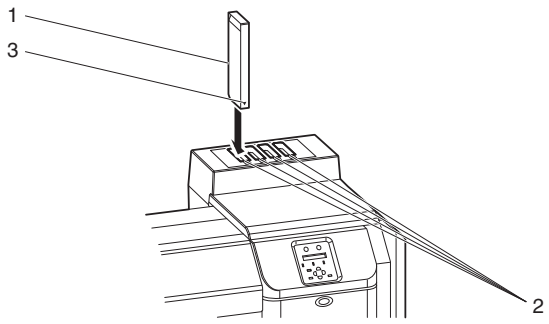


- The printer starts initialization.
- The operation panel displays "[start ink charge ==> E]", press Enter.
- The operation panel displays "during washing".
- The shipping liquid is being flushed out.
- If the operation panel displays “wash retry?” select Yes. (Repeat “wash retry” until cleaning liquid is coming through to the tank, then select ‘No’.
- The operation panel displays “insert cleaning cassettes”.

Step 2 : Take out the cleaning cassette from the solvent resistant blister.

Step 3 : Install the cleaning cassette into the ink cassette slot.

- Keep the ▼ mark of the cleaning cassette facing to the front side of the printer and insert it into the ink cassette slot.
- Insert the cleaning cassette to the end of the slot.



N°	Name
1	Cleaning cassette
2	Cleaning cassette slot
3	▼ mark

- The printer starts filling cleaning fluid.

Step 4 : "During washing" is displayed on the operation panel and the printer starts head cleaning.

Step 5 : After the head cleaning the display shows “Remove Cartridges”

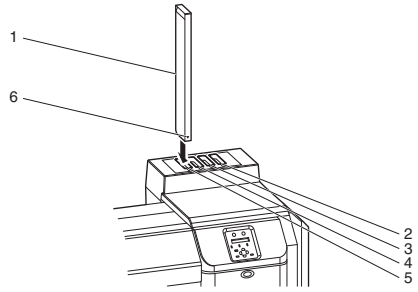
Step 6 : Remove the cleaning cassettes

- During washing is displayed on the operation panel
- After the washing operation “wash retry” is displayed. Select No and press ENTER

Step 7 : "Insert InkCartridge" is displayed on the operation panel after the head cleaning.

Step 8 : Take out the ink cassette from the solvent resistant blister and shake it gently 2-3 times.

- Slots for ink cassettes are specified depending on colours of ink cassettes. Match the colour marked by the side of slot with the colour of the ink cassette.
- Keep the ▼mark facing to the front side of the printer and insert it into the ink cassette slot.
- Insert the ink cassettes in the printer as follows :
- The ink cassettes must be inserted in a specific slot according to the type and colour used.
- Insert the cassettes as far as possible.
- Install all four colours.



N°	Name
1	Ink cassette
2	Ink cassette slot K
3	Ink cassette slot C
4	Ink cassette slot M
5	Ink cassette slot Y

⚠ Notes ⚠

The Océ IJC930 Eco-Solvent ink cassettes have been developed in such a way that miss-insertion is not possible. For each colour, a different design is used, i.e., fins are placed at the outside of each cassette, at different locations, depending on which colour is used.

Result: The operation panel displays "Ink Refill **%", and the initial ink replenishment starts.

- The ink replenishment takes about five minutes. Initial ink replenishment and pause operation are repeated during initial filling.
- When “100%” is displayed, the ink replenishment is complete.
- After the first ink fill, the displays shows “Subtank Refill”
- The operation panel displays "Subtank Refill **%",
- It takes about 6 min to refill the subtank.
- After the ink replenishment the operation panel displays “Media End”

⚠ Notes ⚠

If the Nozzle check printing is performed immediately after the ink replenishment is completed, the printed line may become blurred or it might be printing partially.
In such cases, (refer to: “Head Cleaning”). Charge a small amount of ink and check the printing result. If there is no improvement in the print result even after refilling a small amount of ink, leave the printer for one hour of more, and refill a small amount of ink again. If there is still no improvement, contact your local OCÉ representative.

3.4.1 Replacing ink Cassettes

(1) Replacement time

- When "[****] InkNearEnd" is displayed on the operation panel the alarm buzzer sounds continuously.
  - This message is displayed when there is a small amount of ink remaining in the ink cassette.
  - To stop the buzzer, press [ENTER].
  - Prepare the ink cassette for replacement.
- When "[****] InkEnd" is displayed on the operation panel.
  - This message is displayed when there is no ink remaining in the ink cassette.
  - When "[****] InkEnd" is displayed on the operation panel the alarm buzzer sounds continuously. To stop the buzzer click the [ENTER] key.
  - Immediately replace it with the new ink cassette.

⚠ Notes ⚠

- [****] in the messages of the ink cassette replacement indicates the colour that is almost empty or runs out, using the following characters.
  - K: black
  - C: Cyan
  - M: Magenta
  - Y: yellow
- Only remove and insert ink cassettes at the time of replacement. Not doing so may result in incorrect printing behaviour due to failures such as nozzle loss, or air which might come in the ink tubes.
- If "Ink End" appears, it is not possible to print until the new ink cassette has been inserted.
- If there is no new ink cassette for replacement, leave the empty ink cassette into the printer. Leaving the printer without ink cassettes inside the ink cassette slots may result in head clogging.

Be sure to read and understand the safety warnings before handling the printer.

(2) Cassette Types

Our genuine ink cassettes that can be used for the Océ CS9160 printer are as follows.

Description	Model N°
IJC930 Eco-solvent ink cartridge Black - 0.22 l	29952249
IJC930 Eco-solvent ink cartridge Cyan - 0.22 l	29952250
IJC930 Eco-solvent ink cartridge Magenta - 0.22 l	29952251
IJC930 Eco-solvent ink cartridge Yellow - 0.22 l	29952252
IJC930 Eco-solvent ink cartridge Black - 0.44 l	29952257
IJC930 Eco-solvent ink cartridge Cyan - 0.44 l	29952258
IJC930 Eco-solvent ink cartridge Magenta - 0.44 l	29952259
IJC930 Eco-solvent ink cartridge Yellow - 0.44 l	29952260

⚠ Notes ⚠

- Only use Océ IJC930 Eco-solvent ink.
  This printer has been developed for use of genuine ink cassettes. In case of using non genuine ink cassettes, notice the following :
  - Printing might become blurred and the end of ink in the cassette might no longer be correctly detected.
  - The problems caused by using non genuine ink cassettes will not be covered by the warranty and repair expenses will have to be paid by the customer.
- When the ink cassette is moved from a cold place to a warm place, keep the ink cassette unused for three hours or more in the printing environment.

3.5 MEDIA HANDLING

⚠ Notes ⚠

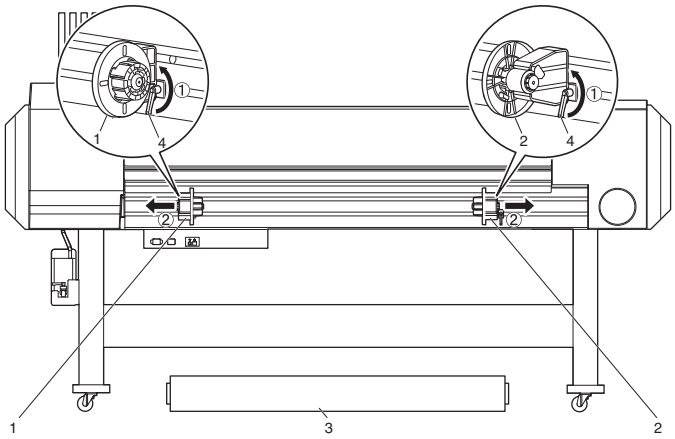
- There are two optional winding systems available for the CS9160
  - o Unwinder/Winder 100 (Only available as option in Europe/ROW)
  - o Motorized winding system with tensioning (T winder) (Standard delivered in North America, option in Europe/ROW)
- Please refer to the User Guide of the chosen system to know how to correctly load media

Refer to the pricing sheet for more details of these systems.

3.5.1 Installing roll media

Place the roll media in the centre of the printer.

Step 1 : Loosen the fixing levers of the right and left roll media holders, and stretch the levers wider than the width of the roll media



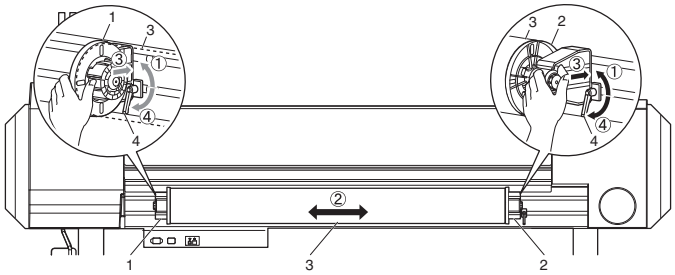
N°	Name
1	Roll media holder (Left)
2	Roll media holder (right)
3	Roll media
4	Fixing levers

Step 2 : Tighten the left roll media holder

Step 3 : Attach the roll media to the left roll media holder

Step 4 : Attach the right roll media holder to the roll media and tighten the fixing lever.

Step 5 : Loosen the fixing levers of the right and left roll media holders, slide the roll media to the centre and tighten the levers.



N°	Name
1	Roll media holder (Left)
2	Roll media holder (Right)
3	Roll media
4	Fixing levers

Step 6 : Switch the printer ON

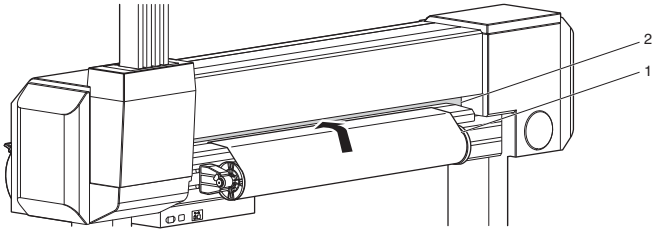
- The printer starts the initial operation
- “Media End” is displayed on the operation panel

Step 7 : Raise the media loading lever

“Lever Up” is displayed on the operation panel

Step 8 : Open the front cover

Step 9 : Insert the roll media into the media feed slot



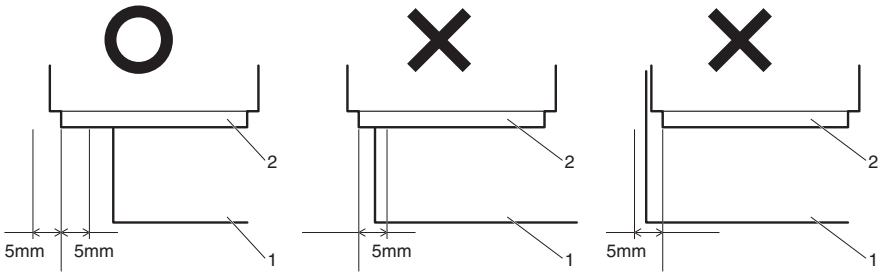
N°	Name
1	Roll media
2	Media feed slot

Step 10 : Pull the roll media approximately 1m out of the media feed slot, which is inside the front cover.

Step 11 : While holding the front end of the roll media, wind the media back for a short distance by turning the flanges of the roll media holders so that the media is not slack or slanted.

⚠ Notes ⚠

- When loading roll media, set each side of the media at least 5 mm away from the edges of the pressure roller. Failing to do so may cause the media to slip or wrinkle while being printed on.



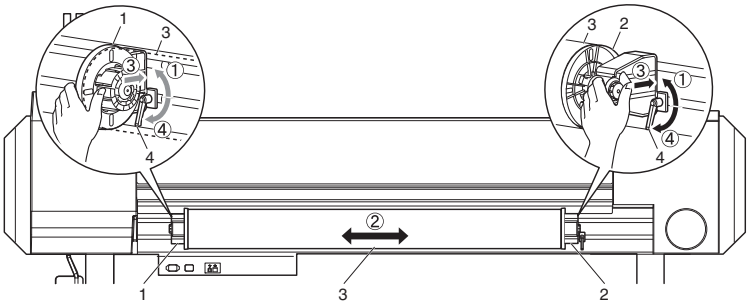
N°	Name
1	Roll media
2	Pressure roller

If the distance between the edge of the roll media and the pressure roller is less than 5 mm, follow the procedure below to adjust the position of the roll media.

- Loosen the fixing levers on the right and left roll media holders, and move the roll media to the right or left.
- After moving the roll media, tighten the fixing levers.

⚠ Notes ⚠

- Be sure to press the roll media holders against the printer while locking them.



N°	Name
1	Roll media holder (left)
2	Roll media holder (right)
3	Roll media
4	Fixing levers

Step 12 : Lower the media loading lever.

Step 13 : Close the front cover.

3.5.2 Replacing roll media

(1) Replacement time

Be sure to read and understand the safety warnings before handling the printer.

Replace roll media if**...**
...the roll media runs out.

- The operation panel displays "End of Roll".
- If the media runs out during printing, the printer stops printing.
- If you want to change the media type.

(2) Replacement steps

⚠ Notes ⚠

- There are two optional winding systems available for the CS9160
  - Unwinder/Winder 100 (Only available as option in Europe/ROW)
  - Motorized winding system with tensioning (T winder) (Standard delivered in North America, option in Europe/ROW)
- Please refer to the User Guide of the chosen system to know how to correctly replace roll media

Refer to the pricing sheet for more details of these systems.

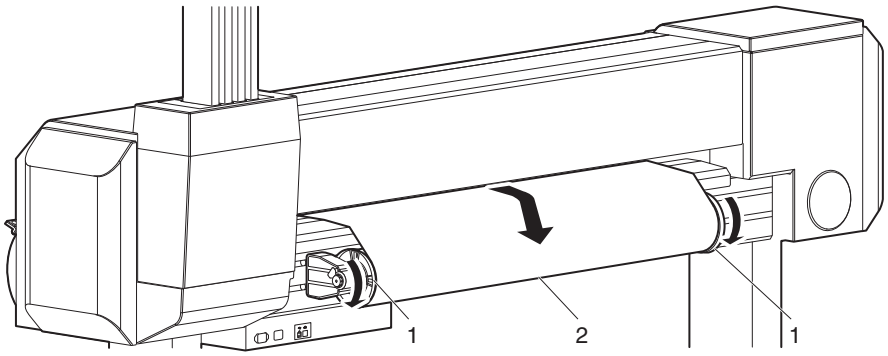
1. Remove the installed roll media.

Step 1 : Verify that

- the printer has been switched ON,
- the printer is in Normal mode, and
- The printer is NOT printing.

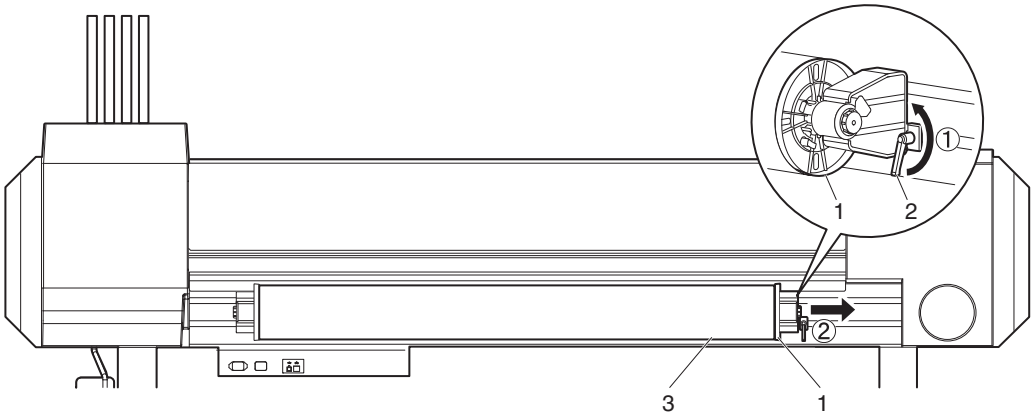
Step 2 : Push the media hold lever backward (lever up).

Step 3 : Turn the flanges of the roll media holders and wind roll media



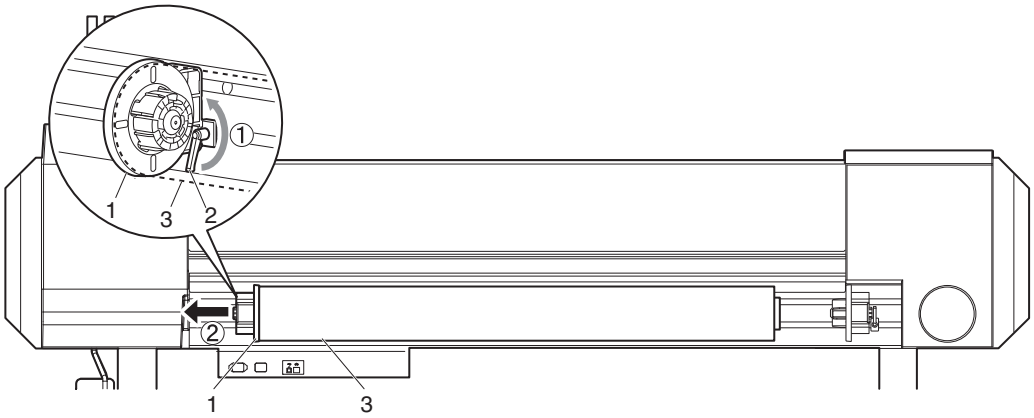
Nr.	Name
1	Roll media holders
2	Roll media

Step 4 : Loosen the lever of the right roll media holder and remove the media



Nr.	name
1	Roll media holder (right)
2	Fixing lever
3	Roll media

Step 5 : Take the same procedure as in step 4, remove the roll media from the left roll media holder.



Nr.	name
1	Roll media holder (left)
2	Fixing lever
3	Roll media

⚠ Notes ⚠

- To load another roll media, refer to: " Setting media"
- Store the roll media you do not use according to: **Notes on storing media**
- Attach the movable flange to the scroller when you do not set roll media, this to set the scroller to the printer.

3.5.3 Setting media type

Introduction:

When you have loaded the media in the CS9160, you will have to set the media type. The Media setup menu is displayed after the media hold lever is pushed from the backward position to the forward position. (= lever down)

⚠ Notes ⚠

- The printer starts the media initialization without setting the media type when
- The [Cancel] key of the operation panel is pressed.
- No key operations are performed on the operation panel for 10 seconds.

Procedure:

Step 1 : Verify that the printer has been switched ON, and the media has been loaded.

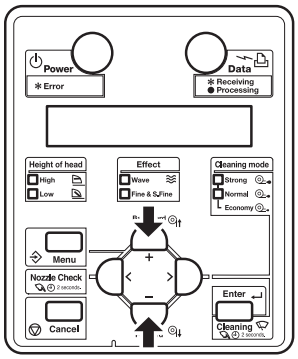
Result: After the media is loaded, the display shifts to the Media setup menu.

⚠ Notes ⚠

Refer to the following topics to load media:

- **Installing roll media**
- **Loading roll media**

Step 2 : Press the [Setting value +] key or [Setting value-] key on the operation panel to select the correct media type.



Step 3 : Press the [Enter] key on the operation panel to confirm your choice.

Result:

- The media type is determined
- The operation panel displays "Media Initial", and the media initialisation starts.

Step 4 : After media initialization, the operation panel displays "Ready to Print" and the printer shifts to normal

Step 5 : When using the roll media, wind back the roll media to avoid slackness at the back.

⚠ Notes ⚠

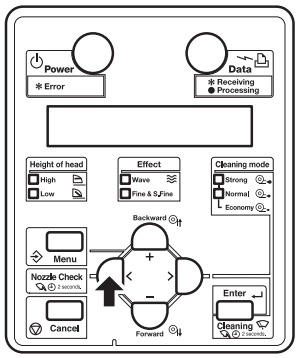
- The printer starts the media initialization without setting the media type when
- The [Cancel] key of the operation panel is pressed.
- No key operations are performed on the operation panel for 10 seconds.

3.6 PERFORMING A NOZZLE CHECK

Step 1 : Verify that the printer has been switched ON and that loaded media roll or sheet measures more than an A3 size.

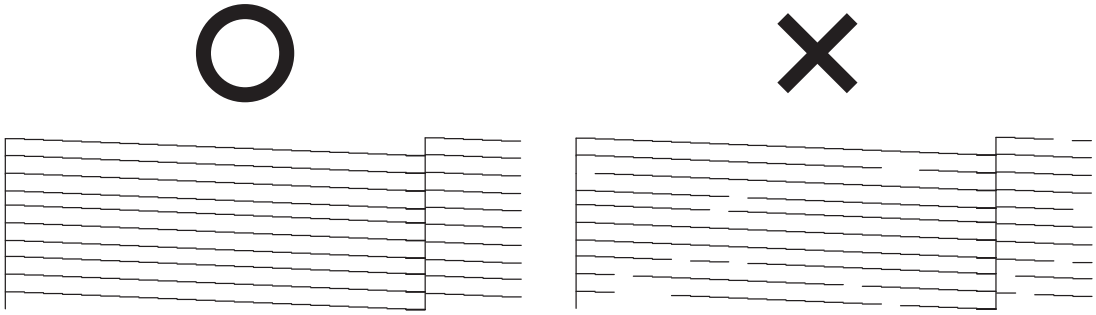
Step 2 : Verify that the printer is in the normal mode – Ready to Print.

Step 3 : Press the [<] key on the operation panel for two seconds or more.



- Nozzle check starts.

Step 4 : Check the sample print for blurred or missing parts in the check pattern.



- If the nozzle check result indicates that there is a problem such as mentioned above in the check pattern, clean the head.

3.7 HEAD HEIGHT ADJUSTMENT

When used?

Use the head height adjustment feature when printing at high speeds or when using strongly curved media. This way you prevent the print head from touching the media.

⚠ Notes ⚠

- If the head height adjustment lever is raised, high print quality will not be guaranteed.
- Do not open the front cover nor change the head height during printing. If the head height is changed, the head alignment will be changed and high print quality will no longer be guaranteed.
- To perform a head alignment, refer to **"Head height alignment"**

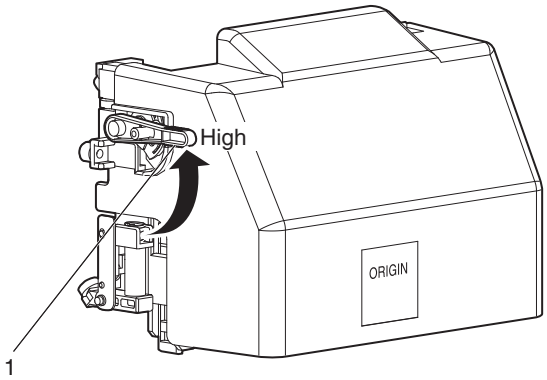
Procedure:

Step 1 : Open the front cover.

Step 2 : Change the head height by moving the head height adjustment lever. (Orange)

⚠ Notes ⚠

- Do not raise the head height adjustment lever higher than the following position, doing so may damage the printer.



N°	Name
1	Head height adjustment lever

- The high lamp on the operation panel lights up in green.

Step 3 : Close the front cover.

3.8 STEP ADJUSTMENT

After every printed swath, the media is fed a certain distance. Depending on the kind of media (weight, backing) another media feed compensation has to be set. This to avoid the following phenomenon:

- Printed swaths overlap.
- White lines between every swath.

In such cases, follow the procedure below and adjust the media feed compensation value.

Step 1 : Display the Media feed compensation menu on the operation panel.

Step 2 : Press the [Menu] key on the operation panel.
- Shift to the Setup menu display.
- The operation panel displays "Menu 1: Setup>".

Step 3 : Press the [>] key on the operation panel.
- The operation panel displays "Set1: MediaType".

Step 4 : Press the [Enter] key on the operation panel.
- The operation panel displays "Media: Type 1".

Step 5 : Press the [+] key or [–] key to select the media type you wish to use.

Step 6 : Press the [Enter] key on the operation panel.
- The operation panel displays "**>1: Print Mode".

⚠ Notes ⚠

- The selected media (Type 1-30) is displayed in "**". Please refer to "**Media Type menu"**

- Press the [+] key or [–] key to select "**>2: PF Adjust>".
- Press the [>] key on the operation panel.
  - The operation panel displays "PF1: "Initial Print ".

Step 7 : Perform the initial adjust print.

- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Feed Length: 250 mm".

⚠ Notes ⚠

- The length that the media is fed for initial adjustment printing is normally set at 250 mm.
- If you make the feeding length longer, the accuracy of the Media feed compensation improves. If you want to change the feeding length, press the [+] key or [–] key and change the set value.

- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Printing".
  - o Start Initial adjustment printing.

N°	Name
1	Feed length
2	Media feeding direction

  - o When the initial adjustment printing is complete, the printer enters the normal status

- After the initial adjustment printing, cut the media. See **"Cutting media"**

Step 8 : Measure the distance between two "+" signs in the initial adjustment print using a measurement tool, such as a ruler.

Step 9 : Set up Initial Adjust Change.

- Press the [+] key or [–] key to select "PF2: Initial change".

- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Init: 250.0/250mm".

- Press the [+] key or [–] key and enter the measured value in step 3.

- Press the [Enter] key on the operation panel
  - o The initial adjustment value is saved.
  - o The operation panel displays "PF2: Initial Change".

Step 10 : Perform the Confirm Print.

- Press the [+] key or [–] key to select "PF3: Confirm Print".
- Press the [Enter] key on the operation panel.
  - The operation panel displays "Feed Length: 250 mm".

⚠ Notes ⚠

- The length that the media is fed (feeding length) for confirmation adjustment printing is normally set at 250 mm.
- If you make the feeding length longer, the accuracy of the Media feed compensation improves. If you want to change the feeding length, press the [+] key or [–] key and change the set value.

- Press the [Enter] key on the operation panel.
  - The operation panel displays "Printing".
  - Start Confirmation adjustment printing.

N°	Name
1	Feed length
2	Media feeding direction

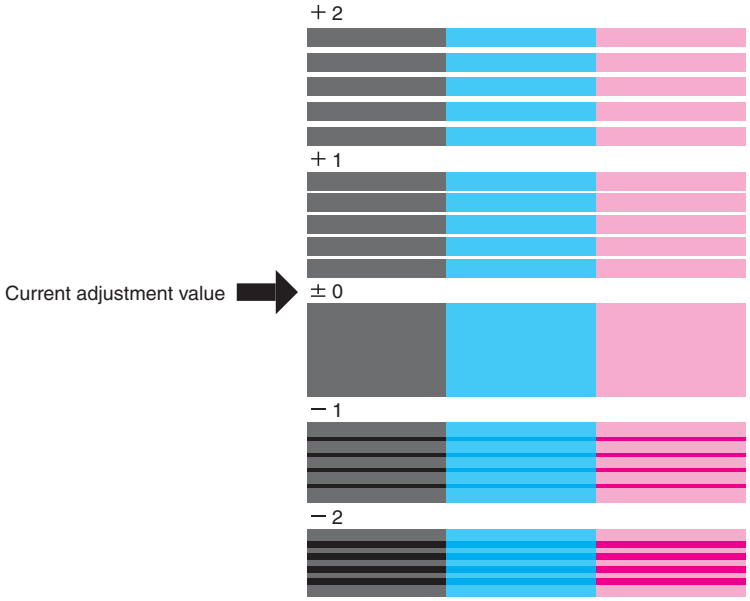
- After the confirmation adjustment printing, cut the media. For more information, please refer to: **" Cutting media"**

Step 11 : Measure the distance between two pluses in the confirmation adjustment print using a measurement tool, such as a ruler, confirm that the distance matches the feeding length when printing.

- If the distance does not match the feeding length, follow the procedure from 1 to 5 and re-adjust.

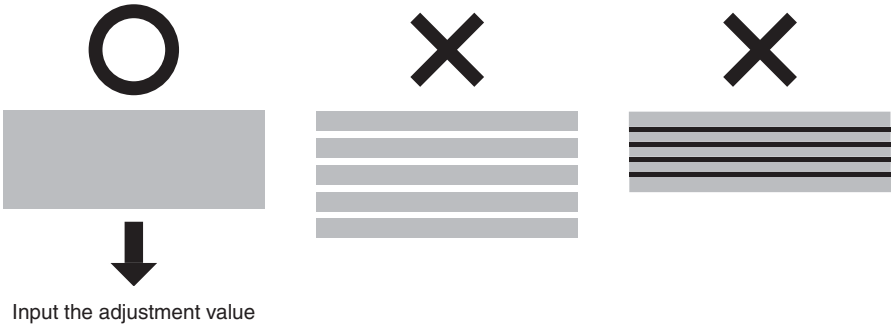
Step 12 : Perform Micro adjustment printing.

- Display the Media feed compensation menu on the operation panel.
- Press the [+] key or [–] key to select "PF4: Micro Adj. Print".
- Press the [Enter] key on the operation panel.
  - The operation panel displays "Printing".
  - Start Micro adjustment printing.



- After the micro adjustment printing is completed, the operation panel displays "PF4: Micro Adj. Print".

Step 13 : Refer to the illustrations below and check the printing result.



Step 14 : Set up the Micro Adjustment Change.

- Press the [+] key or [–] key to select "PF5: Micro Adj.Change".
- Press the [Enter] key on the operation panel.
  - The operation panel displays "Micro: 0pulse".
- Press the [+] key or [–] key and enter the micro adjustment value according to the printing result
- Press the [Enter] key on the operation panel.
  - The micro adjustment value is saved.
  - The operation panel displays "PF5: Micro Adj.Change".
  - The Media feed compensation is complete.

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4 PERIODICAL MAINTENANCE

4.1 DONE BY END USER

This section describes the periodical services required for a CS9160 series printer. The periodical services ensure stable printout quality of the machine. In the periodical services, some service parts need to be checked, cleaned or replaced.

⚠ Important ⚠

- **Be sure to wear gloves when working with inks or cleaning liquid.**

Perform periodical inspection according to the table below.

N°	Action	Frequency
1	Clean around the bottom of the head	Weekly (or sooner if necessary)
2	Clean the wipers	Weekly
3	Replace spitting box sponges	2 months
4	Clean media guide platen	Several times a year
5	Clean timing fences	Several times a year
6	Clean P-Rear sensor front surface	Several times a year
7	Clean pressure rollers	Several times a year.

⚠ Notes ⚠

- Do not insert or drop metal or other objects through openings of the printer. It could lead to an electric shock and / or fire.
- When substances or liquids such as water entered the printer, do NOT use the printer. It could lead to an electric shock and/or fire. Immediately
  - Switch OFF the printer.
  - Disconnect the power plugs from the electric sockets.
  - Contact your local OCÉ representative.

4.1.1 Cleaning the printer

Periodic cleaning is necessary to use the printer in good condition.

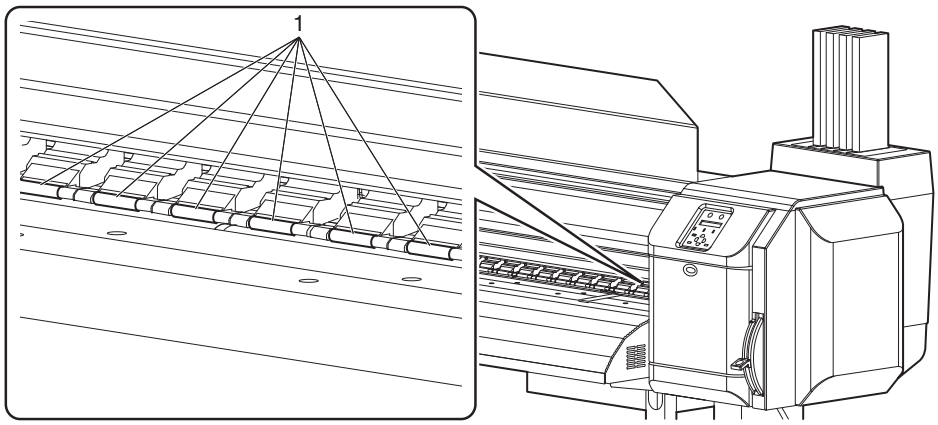
4.1.2 Cleaning the outer case

Instruction: Wipe off the dust and possible dirt from the outer case by using a soft cloth.

4.1.3 Cleaning inside the printer

Step 1 : Open the front cover.

Step 2 : Remove paper powder and dust from the pressure rollers, using a soft brush.

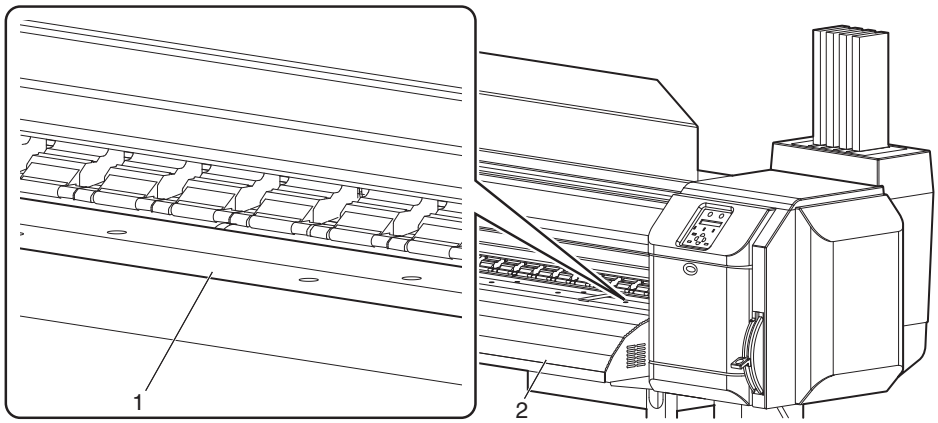


N°	Name
1	Pressure rollers

⚠ Notes ⚠

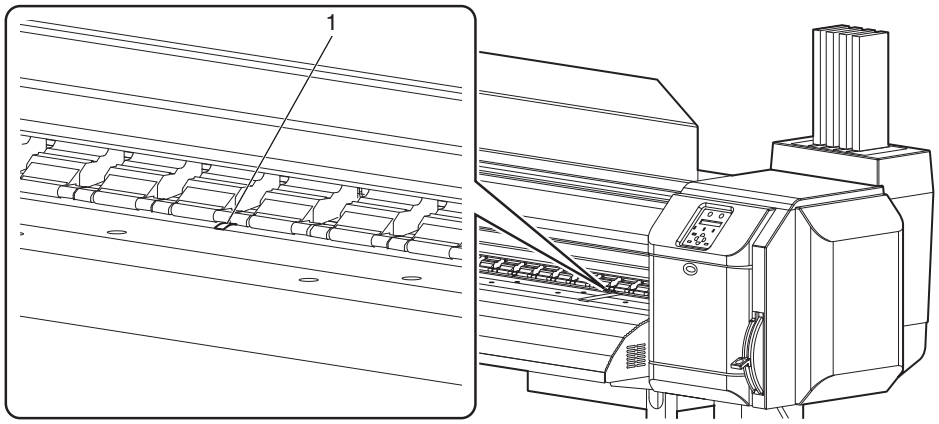
- Do not blow paper powder and dust from the pressure rollers, remove media while cleaning.

Step 3 : Wipe off paper powder and ink from the platen using a dust-free and soft cloth slightly damped with water.



N°	Name
1	Platen
2	Media Guide

Step 4 : Wipe off the dirt of the grid roller's unpainted (silver colour) area with damp and a tightly squeezed soft cloth.



N°	Name
1	Grid roller

4.1.4 Replacing the spitting box sponges

(1) Pre- transport procedure

Replace the spitting-box sponges in the following situations.

- When the spitting-box sponge becomes deformed.
- When smears of ink appear on the media
- Two months after replacement.

(2) Type

⚠ Notes ⚠

- For types and details of the spitting-box sponge, contact your local Océ representative.

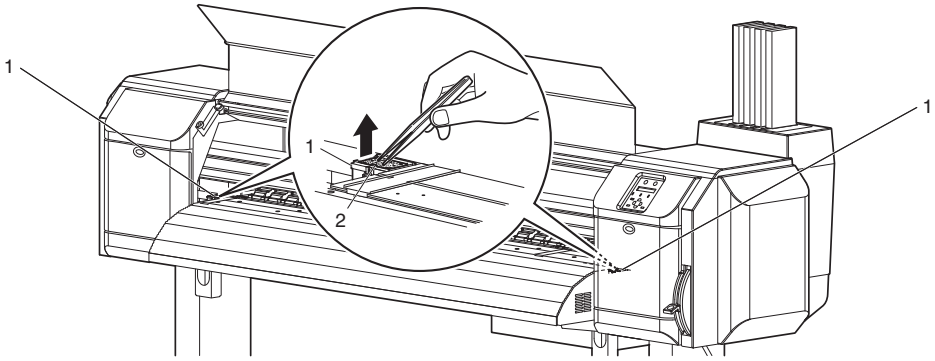
(3) Replacing steps

Step 1 : If the printer is switched ON, make sure that:

- Printing or other operations are not in progress.
- The operation panel display is Normal.

Step 2 : Open the front cover.

Step 3 : Remove the spitting-box sponge from each spitting box by using forceps.



N°	Name
1	spitting boxes
2	spitting-box sponge (part number : 29800022)

⚠ Caution ⚠

- **Do not drop waste fluid when replacing the spitting-box sponges. If waste fluid comes into contact with the grid roller, the surface of the grid roller will be damaged, and the media feed function may be affected.**

Step 4 : Install the new spitting-box sponge to each spitting box.

Step 5 : Close the front cover.

- Spitting-box sponge replacement is complete.

4.1.5 Head cleaning

When to perform?
Perform a head clean if the prints become blurred or are incomplete.

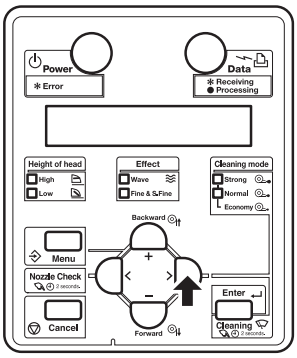
⚠ Notes ⚠

- Remove media while cleaning.

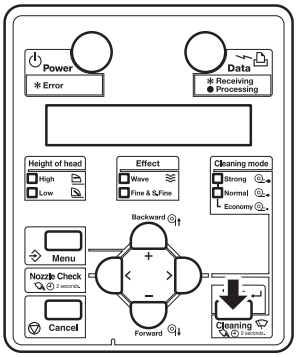
Step 1 : Verify that the operation panel is in Normal mode.

Step 2 : Verify that the media hold lever is lowered

Step 3 : Press the [>] key on the operation panel to select the cleaning mode.



Step 4 : Press the [Cleaning] key on the operation panel for at least 2 seconds.



Result: The operation panel displays “Cleaning **%”.

Step 5 : Start the head cleaning.

⚠ Notes ⚠

- Pressing the [Cleaning] key again after the 1st head cleaning performs a strong cleaning. If you fail to remove blurs or incompleteness of printing in one head cleaning, perform a strong cleaning.
- If you fail to remove blurs or incompleteness of printing with several head cleaning, refer to **Troubleshooting**, and perform the adequate process.

4.1.6 Cleaning the wiper

(1) Cleaning time

Clean the wiper once a week or when blurs or incompleteness in printing remains after the head cleaning.

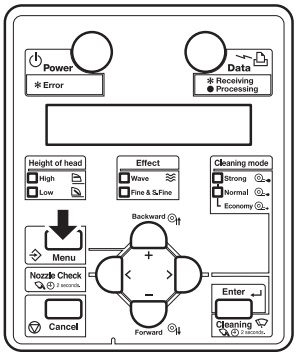
⚠ Notes ⚠

- Use the cleaning stick when cleaning the wiper.

Step 1 : If the printer is switched ON, make sure that:
- Printing or other operations are not in progress.
- The display on the operation panel is in the normal state.

Step 2 : Display the CR Maintenance menu on the operation panel.

Step 3 : Press the [Menu] key on the operation panel.

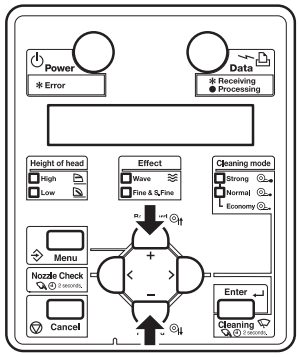


- "Menu 1: Setup>" is displayed on the operation panel.
- The operation panel shifts to the setup menu display.

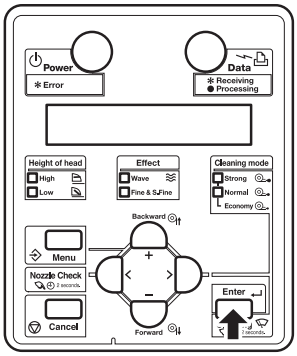
Step 4 : Press the [>] key on the operation panel.

- "Set1: MediaType" is displayed on the operation panel.

Step 5 : Press the [+] key or [-] key to select "Set20: CR Maintenance".



Step 6 : Press the [ENTER] key on the operation panel.

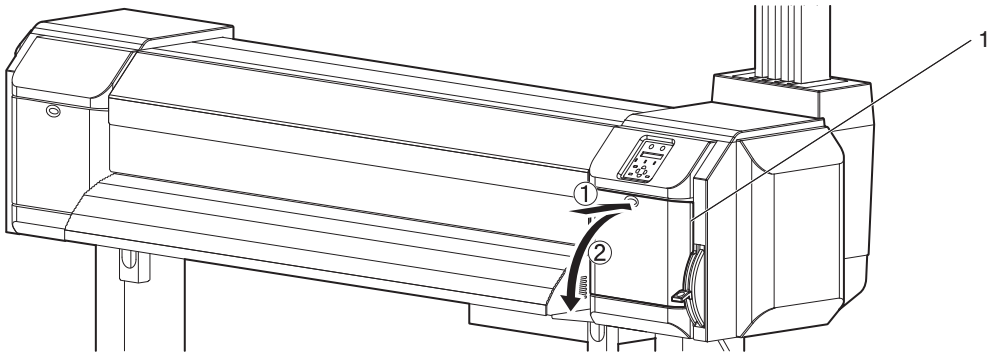


- "CR Mainte.: Start" is displayed on the operation panel
- The display enters the CR Maintenance menu.

Step 7 : Press the [ENTER] key on the operation panel.

- Maintenance starts.
- The print head moves to the left.
- The wiper moves forward.
- "CR Maintenance: End" is displayed on the operation panel.

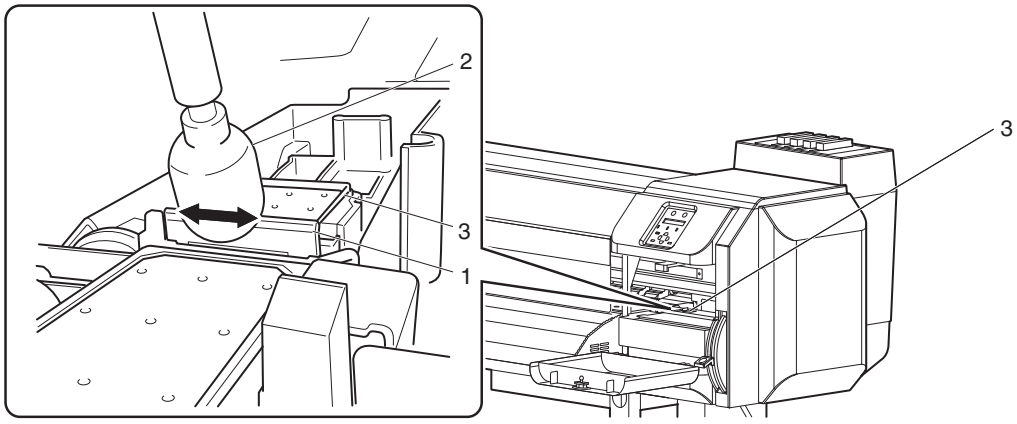
Step 8 : Open the maintenance cover on the right of the printer.



N°	Name
1	Maintenance cover

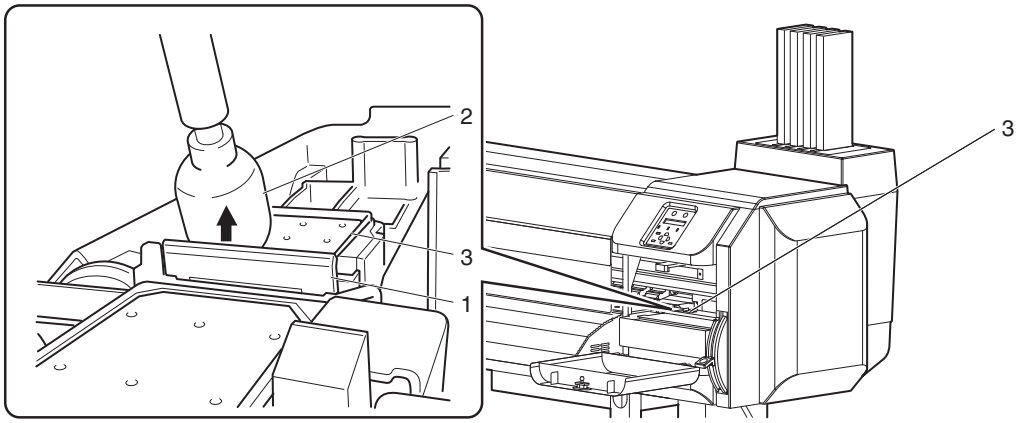
Step 9 : Use the cleaning stick to remove the ink and dust on the cleaning wiper.

- Cleaning wiper front side:
- ➢ Wipe horizontally



N°	Name
1	Cleaning wiper
2	Cleaning stick
3	Head cap unit

- Cleaning wiper backside:
- ➢ Wipe vertically



N°	Name
1	Cleaning wiper
2	Cleaning stick
3	Head cap unit

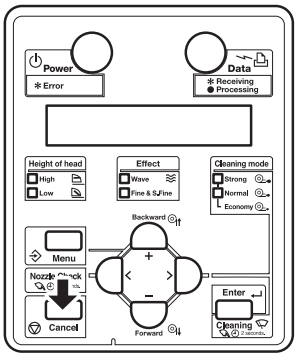
Step 10 : Close the right maintenance cover

- Close the cover firmly until it is locked.

Step 11 : Press the [ENTER] key on the operation panel

- The print head returns to its original position
- The cleaning wiper returns to its original position
- "CR Mainte.: Start" is displayed on the operation panel

Step 12 : Press the [Cancel] key on the operation panel several times



- The printer enters the Normal mode
- Wiper cleaning is now complete.

4.1.7 Cleaning around the print head.

Clean the print head when foreign objects, such as dust or ink, causing omitted dots or ink drops are attached around the print head.

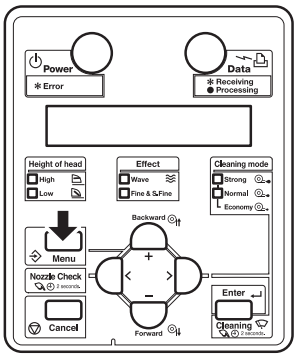
⚠ Notes ⚠

- Before starting to clean around the print head, read and understand this procedure, then clean promptly and accurately.
- When cleaning around the print head, the print head cap must be removed and cleaning must be complete before the head dries. The recommended time for cleaning is about 15 minutes.
- If cleaning exceeds 15 minutes, discontinue it by following steps 7 and 8. Perform head cleaning, and then start cleaning around the print head again. For more information please refer to:" Head cleaning"
- Use the cleaning stick to clean around the print head.

Step 1 : If the printer is switched ON, make sure that.
- Printing or other operations are not in progress.
- The operation panel display is Normal.

Step 2 : Display the CR Maintenance menu on the operation panel.

Step 3 : Press the [Menu] key on the operation panel.

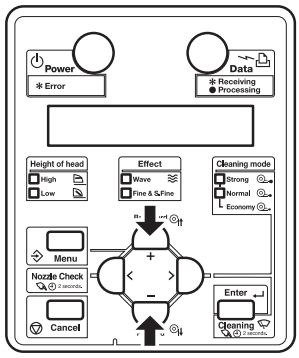


- "Menu 1: Setup>" is displayed on the operation panel.
- The operation panel shifts to the Setup menu display.

Step 4 : Press the [>] key on the operation panel.

- "Set1: MediaType" is displayed on the operation panel.

Step 5 : Press the [+] key or the [-] key to select "Set20: CR maintenance"



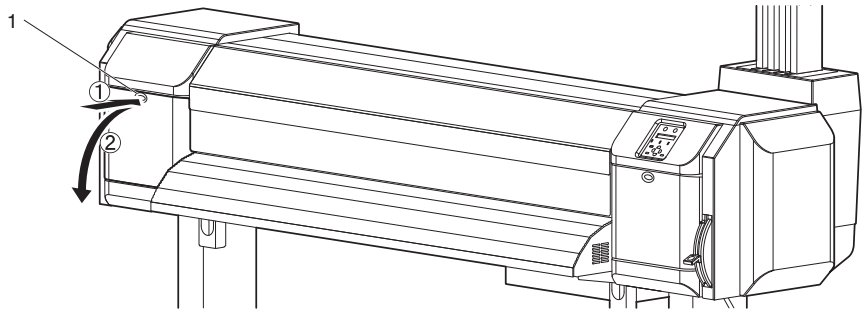
Step 6 : Press the [ENTER] key on the operation panel.

- "CR Mainte.: Start" is displayed on the operation panel.
- The display enters the CR Maintenance menu.
  - For more information please refer to "periodical Maintenance".

Step 7 : Press the [ENTER] key on the operation panel

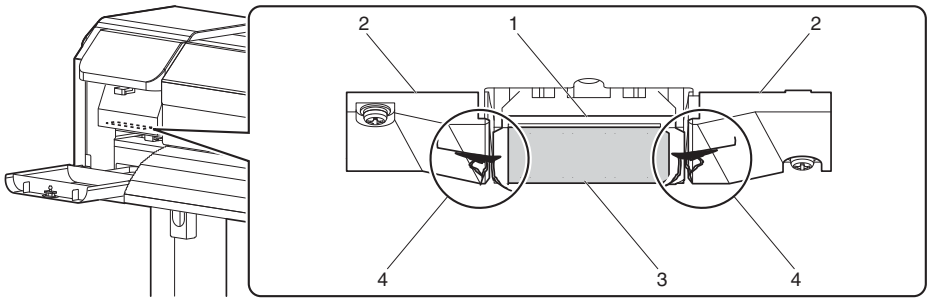
- Maintenance starts
- The print head moves to the left.
- "CR Maintenance: END" is displayed on the operation panel.

Step 8 : Open the left maintenance cover.



N°	Name
1	Maintenance cover

Step 9 : Confirm, using a light such as a penlight, that there are no foreign objects, such as dust or ink attached to the following parts:

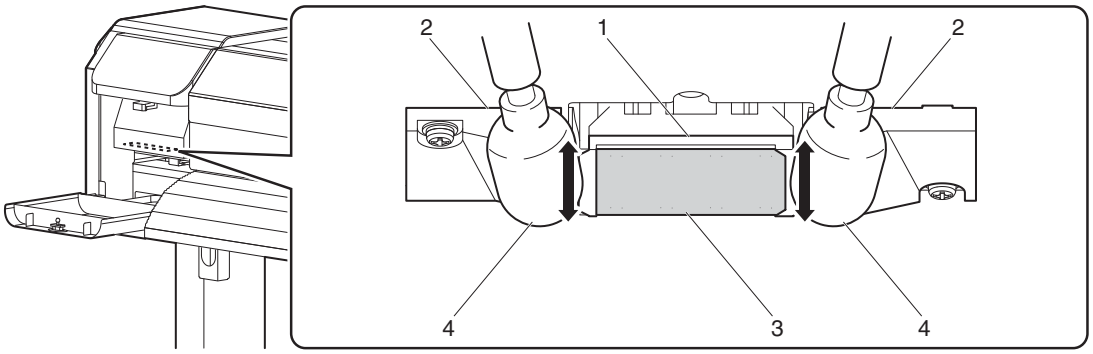


N°	Name
1	print head
2	Head guide area
3	Nozzle
4	Dust, ink mass

⚠ Caution ⚠

- **When cleaning around the print head**
  - **Do not touch the nozzle of the print head; doing so may damage the print head.**
  - **Do not touch the head of the cleaning stick, oil on your hands may attach to the cleaning stick, causing damage to the print head.**
  - **Do not immerse the head of the cleaning stick in water; doing so may damage the print head.**
  - **Do not reuse the cleaning stick; dust attached to the stick may damage the print head.**

Step 10 : If foreign objects, such as dust or ink are attached to the print head, remove them using the cleaning stick.



N°	Name
1	Print head
2	Head guide area
3	Nozzle
4	Dust, ink mass

Step 11 : Close the left maintenance cover.

- Close the cover firmly until it is locked.

Step 12 : Press the [ENTER] key on the operation panel.

- The print head returns to its original position
- “CR Mainte.: Start” is displayed on the operation panel.

Step 13 : Press the [Cancel] key on the operation panel several times.

- The printer enters the Normal mode
- Cleaning around the print head is now complete.

4.2 DONE BY AUTHORIZED OCÉ TECHNICIAN

This section describes the periodical part replacement and the periodical inspections required for this printer. These periodical services ensure the stable printing quality of the printer.

4.2.1 Periodical replacement of parts

Perform periodical replacements according to the table below. These replacements should be executed by an authorized Océ technician. These replacements are necessary to ensure the best printing quality output.

Part	Timing
Maintenance station	Once a year
Wiper	Once a year
Damper	Once a year

4.2.2 Periodical inspection part list

Perform periodical inspections according to the table: “Periodical Inspection Part List” and perform cleaning and part replacement as necessary.

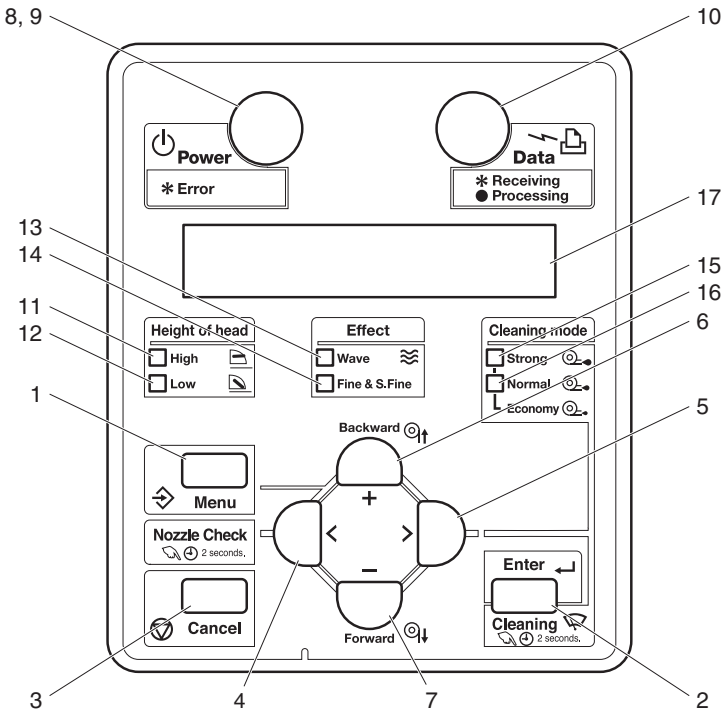
Part	Timing	Check point
Media guide Sub platen front surface	Once a year	• Media dust accumulation • Foreign objects • Damages
Timing fence (CR encoder detection slit plate)	Once a year	• Media dust accumulation • Foreign objects • Damages
Rail on the CR guide frame	Once a year	• Foreign objects
P_REAR sensor front surface	Once a year	• Media dust accumulation • Foreign object

5 MENU STRUCTURE OVERVIEW

5.1 OPERATION PANEL

⚠ Notes ⚠

- Refer to the following for details regarding the operation method of the operation panel.
- When performing menu setting from the operation panel: “Menu setup on the operation panel”
- When performing various operations in the operation panel: “Operating from the operation panel”



⚠ Notes ⚠

- The operation keys are assigned with different functions and names depending on the printer status (Normal or Setup menu display) for details about the printer status, please refer to: “Printer Status”

(1) Operation keys in the Normal mode

N°	Key	Normal	Setup menu display
1	[Menu] key	Changes to Setup menu	Shifts from Setup menu display to Normal.
2	[Enter] key	----	The menu to set is selected and it shifts to the next hierarchy. The setting is determined and saved
	[Cleaning] key	Hold this key for two seconds or more to clean the print head.	----
3	[Cancel] key	• When printing: Forcefully terminates printing and deletes one file of the remaining data. • When receiving or analyzing: deletes data that is already received and analyzed, and delete the next data	Returns to the previous menu. Changes made in the settings are discarded. Shifts from Setup menu display to the normal display.
4	[<] key	----	This menu changes the set value. • Origin menu.
	[Nozzle Check] key	Hold this key for two seconds or more to perform a Nozzle Check printing.	----
5	[>] key	Sets Cleaning Mode. The lamp of the Cleaning Mode that you set lights up (green)	With this key you can go down in the menu level of the directory tree.
6	[Backward feed↑]	Media is fed in the reverse direction.	----
	[+] key	----	• Changes to the previous item in the displayed menu. • The setting is changed to the forward direction. • The numeric value is increased during numerical input.
7	[Forward feed↓]	Media is fed in the forward direction.	----
	[-] key	----	• Changes to the previous item in the displayed setting. • The setting is changed to the reverse direction. • The numeric value is decreased during numerical input.
8	[Power] key	Switches the printer ON or OFF	Switches the printer ON or OFF

(2) Display section.

N°	Name	Colour	Status	Description
9	Power lamp	green	Lamp ON	Power ON
			Lamp blinks	An error has occurred. Error content is displayed on the LCD
			Lamp OFF	Power OFF
10	Data lamp	Orange	Lamp ON	• Analyzing received data. • Printing.
			Lamp blinks	Receiving data
			Lamp OFF	Data is not received nor analyzed.
11	High Lamp	Green	Lamp ON	The head height is set to High
			Lamp OFF	The head height is set to Low
12	Low Lamp	Green	Lamp ON	The head height is set to Low
			Lamp OFF	The head height is set to High
13	Wave Lamp	Green	Lamp ON	The Effect menu is set to Wave.
			Lamp OFF	The Effect menu is set to None.
14	Fine & S.Fine lamp	Green	Lamp ON	The Effect menu is set to Fine or Super Fine
			Lamp OFF	The Effect menu is set to Wave. When the Wave lamp is switched OFF, the Effect menu is set to None.
15	Strong lamp	Green	Lamp ON	• Cleaning Mode is set to Strong. • When the Normal lamp is also switched ON, Cleaning Mode is set to Economy.
			Lamp OFF	Cleaning Mode is set to strong.
16	Normal lamp	Green	Lamp ON	Cleaning Mode is set to Normal. When the Strong lamp is also switched ON, Cleaning Mode is set to Economy.
			Lamp OFF	Cleaning Mode is set to Strong.
17	LCD display section	---	---	Displays operation status of the printer or an error message.

⚠ Notes ⚠

- When an error requiring a restart (fatal malfunction for the printer operation) occurs, all lamps blink with an alarm.
- If the error persists, even when the malfunction is fixed, contact your local OCÉ representative.

5.2 PANEL SETUP MENU

Menu1	Setup	Set 1	Media Type	Type from 1 to 30	1>1	Print mode	Graphic 1 Graphic 2 Banner 1 Banner 2 Banner 3 Banner 4 Quality 1 Quality 2 Quality 3 Quality 4
					1>2	PF Adjust	
					1>3	Pre Heater	
					1>4	Platen Heater	
					1>5	After Heater	
					1>6	Standby Heating	
					1>7	Vacuum Fan	
		Set 2	Effect	None 1 None 2 Wave 1 Wave 2 Fuzz 1 Fuzz 2 Fine & Wave 1 Fine & Wave 2 Fine & Wave 3 Fine & Wave 4 A-S Fine & Wave B-S Fine & Wave			
		Set 3	Flushing	Origin On Media			
		Set 4	Side Margin	From 3 to 25 mm			
		Set 5	Media Initial	OFF Width Top & Width			
		Set 6	Media Width	Width Confirm ---mm			
		Set 7	Take-Up	OFF Type 1			
		Set 9	Origin				

		Set 10	Prev Stick	ON OFF	
		Set 11	Head Fan	ON OFF	
		Set 12	CR Movement	Data Machine	
		Set 13	Over Write Cnt	From 1 to 9 cut	
		Set 14	Over Write Wait	From 0.0 to 5.0 sec	
		Set 15	Slant Check	ON OFF	
		Set 16	Auto Cleaning	OFF From 1h to 24 h	
		Set 17	Ink Status	KCYM	
		Set 18	Roll Length	Roll kind OFF Roll 1 Roll 2 Roll 3	 From 1 to 99 mm
		Set 19	Head Wash	Start	
		Set 20	CR maintenance	Start	
		Set 21	Initialization	All Media type Except Media Type	
		Set 22	Life Time	Head Pump CR motor PF motor	E*****F E*****F E*****F E*****F
		Set 23	IP Address	0.0.0.0 to 255.255.255.255	
		Set 24	Subnet Mask	0.0.0.0 to 255.255.255.255	
		Set 25	Gate Way	0.0.0.0 to 255.255.255.255	
		Set 26	temporary		
Menu2	Test Print	Test1	Nozzle Check		
		Test2	Mode Print		
		Test3	Set List		
		Test4	All Set List		
		Test5	Palette		

Menu3	Adjust Print	Adj.1	Confirm
		Adj.2	
		Adj.3	
		Adj.4	
		Adj.5	BI-D Normal
		Adj.6	BI-D Speed
Menu4	Cleaning	Clean	Economy
		Clean	Normal
		Clean	Strong
		Clean	Little Charge
Menu5	Selection	1	[*] Media Type
		2	[*] Effect
		3	[*] Flushing
		4	[*] Side Margin
		5	[*] Media Initial
		6	[*] Media Width
		7	[*] Take-Up
		8	[*] Feed
		9	[*] Origin
		10	[*] Prev. Stick
		11	[*] Head Fan
		12	[*] CR Movement
		13	[*] Overwrite Cnt
		14	[*] Overwrite Wait
		15	[*] Slant Check
		16	[*] Auto Cleaning
		17	[*] Ink Status
		18	[*] Roll Length
		19	[*] Head Wash
		20	[*] CR maintenance
		21	[*] Initialization

22	[*] Life Time
23	[*] IP Address
24	[*] Subnet Mask
25	[*] Gate Way
26	[*] ALL ON
27	ALL OFF